

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

TITLE AND LOCATION (City and State)

Electrical, Instrumentation and Telemetry Consulting Services, Palm Beach County, Florida

2. PUBLIC NOTICE DATE

3 SOLICITATION OR PROJECT NUMBER

B. ARCHITECT - ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Larry M. Smith, P.E./President

5. NAME OF FIRM

Smith Engineering Consultants, Inc.

6. TELEPHONE NUMBER (561) 616-3911 7. FAX NUMBER (561) 616-3912 8. E-MAIL ADDRESS

larry@smithengineeringconsultants.com

C. PROPOSED TEAM

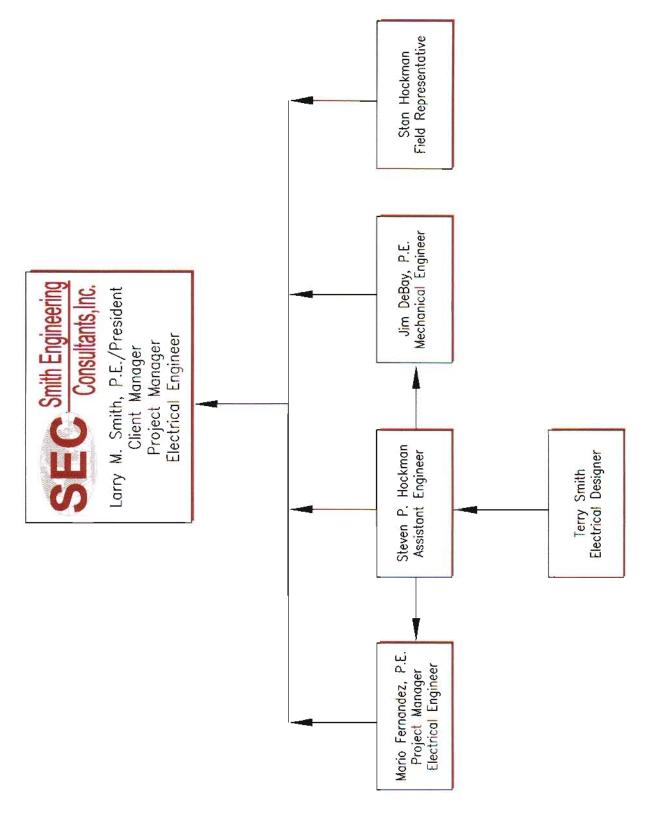
(Complete this section for the prime contractor and all key subcontractors.)

				Complete this section for the	ne prime contractor and all key subcontractor	3.)
	-	PARTNER CHEC	SUBCON. STRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	х			Smith Engineering Consultants, Inc.	2161 Palm Beach Lakes Blvd., Suite 312 West Palm Beach, FL 33409	Electrical, Instrumentation and Telemetry
				CHECK IF BRANCH OFFICE		
b.						
	\vdash			CHECK IF BRANCH OFFICE		
C.				CHECK IF BRANCH OFFICE		
d.				CHECK IF BRANCH OFFICE		
e.	:			CHECK IF BRANCH OFFICE		
f.				CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

ORGANIZATIONAL CHART



S	The state of the s	F KEY PERSONNEL PR	ROPOSED FOR THIS CONTR	RACT	
12.	NAME	13. ROLE IN THIS CON		14	YEARS EXPERIENCE
	Larry M. Smith, P.E.	Electrical Enginee	er	a TOTAL 20	b. WITH CURRENT FIRM 8
	FIRM NAME AND LOCATION (City and State) Smith Engineering Consultants, Inc, 2161 Palm	Beach Lakes Blvd., Si	uite 312, West Palm Beach,	FL 33409	
16.	EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSION	AL REGISTRATION	ON (STATE AND DISCIPLINE)
	Bachelor of Science in Electrical Engineering		Florida/Electrical Engi	neering	
18	OTHER PROFESSIONAL QUALIFICATIONS (Publications, of Post-graduate studies at FAU in telecommunication President of the Palm Beach Chapter), Florida Buil	ns, Tau Beta Pi (Engine	ering Honor Society), IEEE,		
		19. RELEVANT F	ROJECTS	and the same	
	(1) TITLE AND LOCATION (City and State) SEWMD Stormwater Treatment Area (STA)-1W Palm Beach County, Florida		PROFESSIONAL 1999	(2) YEAR CO SERVICES	MPLETED CONSTRUCTION (if Applicatio)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.	a) AND SPECIFIC ROLE	[X] Check if pro	eject performed	with current firm
	Electrical design for the gate control structure and instrumentation, and telemetry systems. The telemetry			ard RTU design	n.
	(1) TITLE AND LOCATION (City and State) SFWMD P.S. 319 Loxahatchec, Florida		PROFESSIONAL 2005	(2) YEAR CO SERVICES	MPLETED CONSTRUCTION (if Applicable) 2005
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.)) AND SPECIFIC ROLE	[X] Check if pro	oject performed	with current firm
	Construction administration for the electrical syst installations and prepared the contract record draw accordance with the actual construction observed	vings for review by the	Corps. Corrections were mad	de to the electri	cal design drawings in
	(1) TITLE AND LOCATION (City and State) Mirasol Pump Station Palm Beach Gardens, Florida		PROFESSIONAL 2001	(2) YEAR CO SERVICES	CONSTRUCTION (If Applicable) 2003
C.	 BRIEF DESCRIPTION (Brief scope, size, cost, etc.) 	a) AND SPECIFIC ROLE	[X] Check if pro	ject performed	with current firm
	Electrical design for a new stormwater pump stati and downstream water level monitoring. A backu motor starters were designed to reduce the starting for control structures, electrical service and distrib (1) TITLE AND LOCATION (City and State)	p diesel generator was og inrush current for the	onsisted of six (6) electric m designed to provide power fo large electric motors. Electric	otor operated p r full pumping cal design inclu etry systems.	numps with both upstream capacity. Reduced-voltage ded motor operated gates
	City of Lake Worth Master Pump Station Lake Worth, Florida		PROFESSIONAL 2002	(2) YEAR CO SERVICES	CONSTRUCTION (If Applicable) 2003
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.	a) AND SPECIFIC ROILE	[X] Check if pro	oject performed	with current firm
	Electrical design including power, controls, instru- booster station. Variable frequency drives (VFD) upgraded telemetry system was designed to replace station.	s) were used to match t	he varying wastewater flow i	nto and out of and status repo	the pump station. An orting to the existing central
	(1) TITLE AND LOCATION (City and State) Gateway Community Development District Ft. Myers, Florida		PROFESSIONAL 2004	(2) YEAR CO SERVICES	MPLETED CONSTRUCTION (If Applicable) 2005
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.	J AND SPECIFIC ROLE	[X] Check if pr	oject performed	with current firm
	Electrical design including power, controls, instru Five (5) new pumps were provided with variable irrigation. A hydropneumatic tank with an air con	frequency drives (VFD)	s) to provide water to the loc	al community,	

SEC	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)				
2. NAME		13. ROLE IN THIS CON Mechanical Engin	TRACT	a TOTAL	YEARS EXPERIENCE b WITH CURRENT FIRM
James L. DeBay, P.E	is .	(viechanical Engli)	(CC)	37	8
5. FIRM NAME AND LOCAT Smith Engineering C		n Beach Lakes Blvd., \$	uite 312, West Palm Beach,	FL 33409	
6. EDUCATION (DEGREE A	ND SPECIALIZATION)	i i	17. CURRENT PROFESSIONA	L REGISTRATIO	N (STATE AND DISCIPLINE)
Bachelor of Science in	n Mechanical Engineering		Florida/Mechanical Eng	tineering	
Two (2) term member	QUALIFICATIONS (Publications.) of the State of Florida Boarery of Heating, Refrigeration	d of Building Codes & S	(otc.) Standards, National Fire Prote Engineers (ASHRAE), Co-aut	ction Associati hor of the Flori	on (NFPA), Past Presider da Model Energy Code.
	THE PART OF THE PARTY.	19. RELEVANT F	PROJECTS		
(1) TITLE AND LOCAT				(2) YEAR COM	
Mirasol Pump Statio Palm Beach Gardens			PROFESSIONAL S 2001		CONSTRUCTION (# Applicable 2003
(3) BRIEF DESC	CRIPTION (Brief scope, size, cost, et	tc.) AND SPECIFIC ROLE	[X] Check if pro	ject performed v	with current firm
and downstream wat motor starters were d	er level monitoring. A backu designed to reduce the starting s, air conditioning of the mai	up diesel generator was or ginrush current for the	n consisted of six (6) electric in designed to provide power for large electric motors. Mechan dumbing.	full pumping of	apacity. Reduced-voltage luded motor operated gate
	n Pump Station No. 6		PROFESSIONAL S 2004	SERVICES	CONSTRUCTION (If Applicab 2005
(3) BRIEF DESC	CRIPTION (Brief scope, size, cost, e.	tc.) AND SPECIFIC ROLE	[X] Check if pro	ject performed	with current firm
motor operated pump	ps with both upstream and de	ownstream water level n	the Village of Wellington. The nonitoring. A backup diesel go actuded ventilation and plumb	enerator was de	signed at each pump
(1) TITLE AND LOCAT City of West Palm B West Palm Beach, Fl	each Renaissance Pump Stat	tion	PROFESSIONAL S 2002		MPLETED: CONSTRUCTION (If Applicable 2004
(3) BRIEF DES	CRIPTION (Brief scope, size, cost, e	tc.) AND SPECIFIC ROLE	[X] Check if pro	ject performed:	with current firm
upstream and downs pumping capacity. M plumbing.	tream water level monitoring Mechanical design included	g. Provisions for a future	n consisted of three (3) electri e backup diesel generator were control structures, ventilation	e designed to p n of the main el	rovide power for full ectrical room, and
(1) TITLE AND LOCAT City of Lake Worth ! Lake Worth, Florida	Master Pump Station		PROFESSIONAL S 2002		MPLETED CONSTRUCTION (II Applicable 2003
(3) BRIEF DESC	CRIPTION (Brief scope, size, cost, e.	tc.) AND SPECIFIC ROLE	[X] Check if pro	ect performed	with current firm
low profile, space sa	or two (2) redundant air-con ving design so as to maximi es to extend the life of these	ze the available space for	of the electrical equipment room the electrical equipment. A	m. These splitt ir conditioning	(DX) systems were of a of the variable frequency
(1) TITLE AND LOCAT Gateway Communit Ft. Myers, Florida	ION (City and State) by Development District		PROFESSIONALS 2004		MPLETED CONSTRUCTION (If Applicable 2005
(3) BRIEF DESC	CRIPTION (Brief scope, size, cost, s	to) AND SPECIFIC ROLE	[X] Check if pro	ject performed	with current firm
station. These split(DX) systems were of a low	profile, space saving des	cool the electrical equipment sign so as to maximize the ava nd the life of these expensive	ilable space for	claimed water pump the electrical equipment

SEC	(Complete one Section	PROPOSED FOR THIS CONTRACT E for each key person.)	
12. NAME	13 ROLE IN THIS C		14. YEARS EXPERIENCE
Mario Fernandez, P.E.	Electrical Engi	I .	OTAL 6 WITH CURRENT FIRM
 FIRM NAME AND LOCATION (City and S Smith Engineering Consultants, 	the state of the s	, Suite 312, West Palm Beach, FL 3340	19
16. EDUCATION (DEGREE AND SPECIAL)	IZATION)	17. CURRENT PROFESSIONAL REGIST	RATION (STATE AND DISCIPLINE)
Bachelor of Science in Electrical E	Engineering	Florida/Electrical Engineering	
18. OTHER PROFESSIONAL QUALIFICATI Institute of Electrical and Electron		ards, etc.)	
		IT PROJECTS	
(1) TITLE AND LOCATION (City and St			AR COMPLETED
Town of Palm Beach Pump Station Palm Beach, Florida	on Generators	PROFESSIONAL SERVICES 2003	S CONSTRUCTION (If Applicable 2004

	(1) TITLE AND LOCATION (City and State)	(2) YEAR C	OMPLETED
	Town of Palm Beach Pump Station Generators	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	Palm Beach, Florida	2003	2004
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	[X] Check if project performe	d with current firm
	Electrical design, including power, controls, instrumentation and telemetry for the in	■ 2 16 17 18 18	
	remote telemetry units (RTU's), one (1) at each of two (2) existing stormwater pump service was designed at each pump station, including a new automatic transfer switch	stations in the Town of Palm	Beach. A new electrical
	submersible pumps. Data Flow telemetry systems were specified to provide control		
	(1) TITLE AND LOCATION (City and State)		OMPLETED
	City of Lake Worth Water Booster Station Generators	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	Lake Worth, Florida	2007	2008
Э.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	[X] Check if project performe	d with current firm
	Electrical design, including power, controls, instrumentation and telemetry for th	The Table School State of the State of	
	remote telemetry units (RTU's), one (1) at each of two (2) existing water booster	pump stations in the City of L	ake Worth. A new electrical
	service was designed at each pump station, including a new automatic transfer sy		
_	existing water booster pumps. Motorola MOSCAD telemetry systems were spec (1) TITLE AND LOCATION (City and State)		
	City of Lake Worth WTP Generator	PROFESSIONAL SERVICES	OMPLETED CONSTRUCTION (If Applicable)
	Lake Worth, Florida	2006	2007
С.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	[X] Check if project performe	d with current firm
	Electrical design, including power, controls, lighting, instrumentation and SCADA for		
	the existing water treatment plant. Also included within this project was the electrical	al design for the replacement o	f five (5) existing pumps and
	motors. New VFD's and solid-state, reduced voltage motor starters were installed w		I center to serve the pumps.
-	A 1,000kW diesel generator was installed to provide backup power to the entire was (1) TITLE AND LOCATION (City and State)	WOMAN CONTRACTOR OF THE PARTY O	OMPLETED
	City of Riviera Beach Master Pump Stations	PROFESSIONAL SERVICES	CONSTRUCTION (# Applicable)
	Riviera Beach, Florida	2005	2006
ı,	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	[X] Check if project performe	d with current firm
	Electrical design, including power, controls, instrumentation and telemetry for the re	habilitation of two (2) existing	wastewater pump stations
	No. LA and No. 50 in the City of Riviera Beach. New VFD's were designed to control		
	generator was designed for each station to replace the existing, aging units. VFD's a	and instrumentation were succe	ssfully integrated into the
-	existing SCADA/telemetry system.	(0.7/C i D o	NOUN ETEN
	(1) TITLE AND LOCATION (City and State) Village of Wellington Pump Station Telemetry	(2) YEAR C PROFESSIONAL SERVICES	COMPLETED CONSTRUCTION (If Applicable)
	Wellington, Florida	2002	2003
	(2) PRICE DESCRIPTION (Print ages of the LAND SPECIEL POLE	L DVI Charles	
e.	(3) BRIEF DESCRIPTION (Brief scape, size, cost, etc.) AND SPECIFIC ROLE	[X] Check if project perform	
	Electrical design including power, controls, instrumentation and telemetry for the ins		
	Wellington's stormwater pump stations. A new base station including computer wor		

antenna tower were installed at the existing public works complex. RTU's were installed in the field at several pump stations. These communicated with the base station to provide remote control and status reporting for pumps, generators, water level sensors, and gates.

STANDARD FORM 330 (1/2004) PAGE 2



(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

L

21. TITLE AND LOCATION (Cay and State)
Flagler Drive Wastewater Pump Stations
West Palm Beach, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (if Applicable)

2002

2003

23. PROJECT OWNER'S INFORMATION

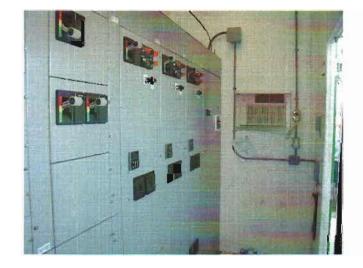
a. PROJECT OWNER City of West Palm Beach	b. POINT OF CONTACT NAME Ken Rearden, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (561) 822-1400
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This award winning project included the replacement of a wastewater force main pipeline, and the rehabilitation of two (2) existing pump stations. Pump Station No. 3's submersible pumps were replaced to meet the new flow and head requirements. Control panel upgrades were designed to accommodate the parameters of the new submersible pump motors.

At Pump Station No. 5, a new electrical service (including a City-owned step-up transformer) was designed to handle the additional electrical load of the station. A replacement of the three (3) existing VFD's was accomplished within the existing motor control center. Provisions to connect a portable generator through a manual transfer switch were also provided.

Total Project Cost = \$1,300,000





	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Smith Engineering Consultants, Inc.	West Palm Beach, Florida	Electrical Engineering
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
b.			



Delray Beach, Florida

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

NTRACT NUMBER

(Present as many projects as requested by the agency, or 10 projects, If not specified.

Complete one Section F for each project.)

21. TITLE AND LOCATION (City and State)
Palm Beach County LS 5243 Generator Installation

22. YEAR COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (if Applicable)

2007

2008

20 EXAMPLE PROJECT KEY

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Palm Beach County	John Rich, P.E.	(561) 493-6116

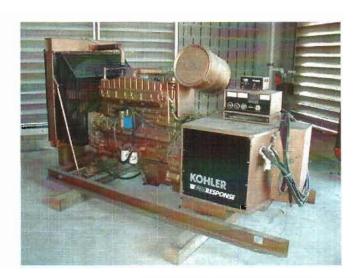
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The design is presently being completed for the installation of a standby power generator and diesel fuel tank at the County's existing Lift Station No. 5243. The existing chemical building is being modified to house the relocated generator. A new above ground, diesel fuel tank will be installed on site to provide adequate fuel for the required duration of operation.

A new electrical service was designed, including a new automatic transfer switch, to provide both normal and emergency power to the wastewater pumps. A new pump control panel was designed in accordance with the County's latest standards.

Total Project Cost = \$100,000





100	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Smith Engineering Consultants, Inc.	West Palm Beach, Florida	Electrical and Mechanical Engineering
	(1i) FIRM NAME:	(2) FIRM LOCATION (City and State)	(3) ROLE
þ.			



(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 (Cay and State)
Town of Palm Beach Pump Station Generators
Palm Beach, Florida

22. YEAR COMPLETED

2003

PROFESSIONAL SERVICES CONSTRUCTION (if Applicable)

2004

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Palm Beach	Jim Bowser, P.E.	(561) 838-5440

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

Two (2) new standby power generators and remote telemetry units (RTU's) were provided, one (1) at each of two (2) existing stormwater pump stations at Jungle Road and El Brillo Road along the intracoastal waterway in Palm Beach. Each generator consisted of a self-contained, skid-mounted, diesel fuel tank below the generator enclosed with a weatherproof, sound-attenuating enclosure.

A new electrical service was designed at each pump station including a new automatic transfer switch, to provide both normal and emergency power to the submersible pumps. Data Flow telemetry systems were specified to provide control and status reporting to the existing central station.

Total Project Cost = \$175,000





	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Smith Engineering Consultants, Inc.	West Palm Beach, Florida	Electrical Engineering
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
b.			



(Present as many projects as requested by the agency, or 10 projects, If not specified.

Complete one Section F for each project.)

20. FXAMPLE PROJECT KEY NUMBER

4

21. TITLE AND LOCATION (Csty and State)
City of Lake Worth Master & Re-Pump Stations
Lake Worth, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (if Applicable)

2002

2003

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Lake Worth	b. POINT OF CONTACT NAME Mike Thew, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (561) 586-1671	
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Two (2) existing wastewater pump stations were recently rehabilitated. The work included the installation of new variable frequency drives (VFD's) and remote telemetry units (RTU's) for the control of existing wastewater pumps. At the Master-Pump Station a new electrical room was enclosed and air-conditioned to house the new VFD's. The existing electrical service was modified to distribute power to the new equiopment.

At the Repump Station new VFD's were installed within the pump station and fed from the existing electrical service which was modified for this purpose. Upgraded telemetry systems were designed for both stations to replace the existing, aging systems, and to provide control and status reporting to the existing central station.

Total Project Cost = \$500,000





100	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Smith Engineering Consultants, Inc.	West Palm Beach, Florida	Electrical and Mechanical Engineering



(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)
City of Lake Worth. Water Booster Stations
Lake Worth, Florida

PROFESSIONAL SERVICES

22 YEAR COMPLETED

CONSTRUCTION (if Applicable)

2007

2008

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Lake Worth	Mike Thew, P.E.	(561) 586-1671

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

Two (2) new standby power generators and remote telemetry units (RTU's) were designed, one (1) at each of the two (2) existing north and south water booster stations in the City of Lake Worth. Each generator consists of a self-contained skid-mounted, diesel fuel tank below the generator enclosed with a weatherproof, sound-attenuating enclosure.

A new electrical service was designed at each pump station, including a new automatic transfer switch, to provide both normal and emergency power to the existing water booster pumps. Motorola MOSCAD telemetry systems were specified to provide control and status reporting to the existing central station.

Total Project Cost = \$250,000





	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Smith Engineering Consultants, Inc.	West Palm Beach, Florida	Electrical Engineering
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
þ.			



(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)
Village of Royal Palm Beach R.O. Plant Expansion

PROFESSIONAL SERVICES

CONSTRUCTION (if Applicable)

2006

22 YEAR COMPLETED

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER
b. POINT OF CONTACT NAME
c POINT OF CONTACT TELEPHONE NUMBER
Ray Liggins, P.E.
(561) 790-5165

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

A new reverse osmosis system was added to the existing water treatment plant significantly increasing its capacity. New variable frequency drives (VFD's) were installed to serve the new high pressure pump and the existing transfer pump. The new VFD's were installed within the existing main electrical room and fed from the existing motor control centers.

A new odor control system was installed complete with blowers, recirculation pumps, and chemical feed pumps. The existing clearwell transfer pumps were replaced with larger motors requiring upgraded motor controls and wiring. Additional instrumentation was installed throughout the site with new programmable logic controllers (PLC's) provided for the main process equipment. These were all successfully integrated within the existing plant supervisory control and data acquisition (SCADA) system.

Total Project Cost = \$950,000





25. FIRMS	FROM	SECTION	CINVOLVED	WITH THIS	PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Smith Engineering Consultants, Inc.	West Palm Beach, Florida	Electrical Engineering
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
b.			



(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)
Village of Royal Palm Beach WWTP Expansion

22. YEAR COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (if Applicable)

2001 -

2003

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Village of Royal Palm Beach	Ray Liggins, P.E.	(561) 790-5165

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

A recent expansion to the existing wastewater treatment plant included the addition of a new dewatering building (including belt filter press and truck loading area), odor control system, site lift station, sodium hypochlorite structure, and effluent pump station modifications. New site lighting was installed throughout the project. A new 1,200A, 480V electrical service was designed to feed the entire plant including both existing and new electrical loads. Complex control, instrumentation, and SCADA systems were provided and integrated into a new plant control system.

Smith Engineering Consultants designed all of the electrical systems, including power, lighting, controls, instrumentation, and SCADA for an even more recent plant expansion. This expansion included the addition of a new pre-treatment (headworks) structure, equalization basin, aerobic digester, two (2) new clarifiers, and effluent pump station modifications. This expansion was never constructed because of Palm Beach County's acquisition of the Royal Palm Beach utilities.

Total Project Cost = \$2,300,000





	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Smith Engineering Consultants, Inc.	West Palm Beach, Florida	Electrical Engineering
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
b.			



(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

2007

21. TITLE AND LOCATION (City and State)
City of Lake Worth Water Treatment Plant Generator

22. YEAR COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (if Applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Lake Worth	Mike Thew, P.E.	(561) 586-1671

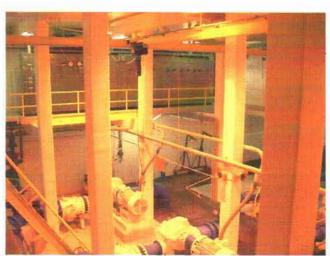
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

A new electrical building was constructed to house the new main electrical service and standby power generator for the existing water treatment plant in Lake Worth. New high service pumps and motors were installed to replace the existing, aging pumps and motors. Two (2) new variable frequency drives (VFD's) and three (3) new solid-state, reduced voltage motor starters were installed within the existing motor control center to serve the pumps. Air conditioning was provided to cool the VFD's. Electrically operated valves for the high service pumps were successfully integrated into the motor control scheme. Operation of the VFD's was integrated into the existing plant SCADA system.

A 1,000 kW diesel generator was installed to provide backup power to the entire water treatment plant. A new 1,600A, 480V electrical service, including an automatic transfer switch, was designed for the plant. All of this equipment was housed within the new electrical building constructed on the site.

Total Project Cost = \$1,300,000





	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Smith Engineering Consultants, Inc.	West Palm Beach, Florida	Electrical and Mechanical Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



2

3

4

5

WPB Flagler Drive WW Pump Stations

Palm Beach Pump Station Generators

Lake Worth WW Pump Stations

Lake Worth Water Pump Stations

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

	NAMES OF KEY PERSONNEL rom Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)		(Fill in	p	e Projec Place ") articipati	ts Key" (" under on in sa	section l project me or si	below be key num milar role	fore com ber for e.)	npleting	
Larry M. S		Electrical Engineer	1 X	2 X	3 X	4 X	5 X	6 X	7 X	8 X	9	10
200					<u> </u>	A		, A	Α			
Mario Fern	andez, P.E.	Electrical Engineer			Х		Х	X		X		
lim DeBay	, P.E.	Mechanical Engineer		X		Х				х		
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		29. EXAMPLI	E PPO II	ECTS 4								
NO.	TITLE OF CVAN	MPLE PROJECT (FROM SECTION F)		10.		I E OE	YASADI	FORO	JECT (FF	2014 55	CTION	E)
1	PBC LS 5243 Gene	·	_	6	Village							<u>-) </u>

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Village of Royal Palm Beach WWTP Expansion

Lake Worth WTP Generator

H. ADDITIONAL INFORMAITON

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

Smith Engineering Consultants, Inc. is a multi-discipline engineering firm with an in-depth knowledge of energy, water, telecommunications, and architectural projects. At SEC, we approach our business just as you do, focusing on our customers and the various environments in which they operate.

SEC places a strong emphasis on creating productive working relationships with clients. Because we believe that teamwork is the key to success, our professionals are committed to responsive service, attention to detail, and effective communication and cooperation.

Our staff has built a deserved reputation for completing assignments in a cost-effective and timely manner. We've accomplished this through innovative thinking, careful planning, and professionals who believe in quality and hard work.

As Florida continues to experience tremendous growth, capital improvement projects will remain in the forefront of municipal infrastructure improvement efforts. The staff at Smith Engineering Consultants has played an important role in the design, construction, and renovation of facilities throughout the state. Our knowledge of facilities and agencies in Palm Beach, Martin, and St. Lucie Counties is particularly notable, due to our more than 30 years of experience here in south Florida.

Public facilities require complex electrical and mechanical systems, including HVAC, plumbing, power, lighting, controls, instrumentation, and telemetry. You can turn to SEC for expertise in the design of these elements.

Cost-effective design is the key to success for today's municipal infrastructure projects. Understanding that funding usually comes from a county or city's own tax base, our staff approach every design from a "Total Project" perspective. We will provide the most cost-effective and efficient design for the long term, always looking hard at the client's operation and maintenance costs.

	I. AUTHORIZED REPRESENTATIVE	
	The foregoing is a statement of facts	
31 SICNATURE		32. DATE
33. NAME AND TITLE Larry M. Smith, P.E./President		V



ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

(If a firm has l	PART II – GENERAl branch offices, complete for			()	
2a. FIRM (OR BRANCH OFFICE) NAME Smith Engineering Consultant	s, Inc.		3. YEAR ESTABLISHED 1999	4. DUNS NUMBER	
2b. STREET 2161 Palm Beach Lakes Blvd., S	5. OWNERSHIP a. TYPE				
2c. CITY West Palm Beach	2d. STATE FL	33409	b. SMALL BUSINESS STATUS City of WPB, Palm Beach County, SFWMD		
6a. POINT OF CONTACT NAME AND TITLE Larry M. Smith, P.E., President	7. NAME OF FIRM (If block 2	*			
6b. TELEPHONE NUMBER (561) 616-3911	6c. E-MAIL ADDRESS Ismithpe@aol.co	m			
8a. FOR	MER FIRM NAME(S) (If any)		8b. YR. ESTABLISHED	8c. DUNS NUMBER	

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. o (1) FIRM	f Employees (2) BRANCH	a. Profile Code	b. Experience	c. Revenue Index Number (see below)
02	Administrative	1		A05	Airports; Navaids; Airport Lighting	1
08	CADD Technician	2		C18	Cost Estimating	1
21	Electrical Engineer	2		D03	Desalinization	1
42	Mechanical Engineer	2		E03	Electrical Studies and Design	1
15	Construction Inspector	1		H04	Heating; Ventilating; Air Conditioning	1
				L06	Lighting (Exteriors; Streets; Memorials;	1
				P07	Plumbing & Piping Design	1
				P12	Power Generation, Transmission, Dist.	1
				S13	Storm Water Handling & Facilities	1
				A12	Automation; Controls; Instrumentation	1
				C04	Chemical Processing & Storage	1
				B02	Bridges	1
				C08	Codes; Standards; Ordinances	1
				C17	Corrosion Control; Catholic Protection;	1
				D04	Design-Build - Preparation of Requests for	1
				F03	Fire Protection	1
				F05	Forensic Engineering	1
				S04	Sewage Collection, Treatment and Disposal	1
				S07	Solid Wastes; Incineration; Landfill	
				H07	Highways; Streets; Airfield Paving; Parking	1
	Other Employees	0		W03	Water Supply; Treatment and Distribution	1
Total 8			R04	Recreation Facilities (Parks, Marinas, Etc.)	1	

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1	
b. Non-Federal Work	4	
c. Total Work	4	

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1 Less than \$100,000

2. \$100,000 to less than \$250,000

3. \$250,000 to less than \$500,000

4. \$500,000 to less than \$1 million

5. \$1 million to less than \$2 million

6 \$2 million to less than \$5 million

7. \$5 million to less than \$10 million

8. \$10 million to less than \$25 million

9. \$25 million to less than \$50 million

10. \$50 million or greater

12. AUTHORIZED	REPRESENTATIVE
The foregoing is a	statement of facts.

a. SIGNATURE b. DATE

c. NAME AND TITLE

Larry M. Smith, P.E./President