City of North Port

Professional Engineering Services Continuing Services Contracts

RFP No. 2024-14

Original
RFP No.: 2024-14
Date: March 4, 2024
Time: 2:00 p.m. EST

City of North Port

Professional Engineering Services – Continuing Services Contracts for City of North Port

RFP No. 2024-14
March 4, 2024

Firm's Legal Name:
WSP USA Inc.

Project Manager:
Gregory Corning, PE

Contact Information:
(314) 920-8359 (cell)
(813) 520-4444 (office)
N/A (fax)

Email:
greg.corning@wsp.com

Address:
5411 Sky Center Drive, Suite 650
Tampa, Florida 33607

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TAB 1
Transmittal Letter

5411 Sky Center Drive
Suite No. 650
Tampa, Florida 33609

wsp.com

March 4, 2024

City of North Port
Ginny Duyn, CPPB, Senior Purchasing Administrator
4970 City Hall Boulevard, Suite 337
North Port, Florida 34286

Re: RFP No. 2024-14 City of North Port Professional Engineering Services – Continuing Services Contracts for City of North Port

Dear Selection Committee Members:

WSP USA Inc. (WSP), formerly Wood Environment & Infrastructure Solutions, Inc. (Wood), is very pleased to submit our proposal to the City of North Port to provide Professional Services to conduct work that consists of, but is not limited to, all aspects of roadway and drainage infrastructure and facilities management. WSP is a global multidisciplinary engineering firm with more than 20 offices throughout Florida, including our Tampa location. Our firm designs, delivers, and maintains strategic and complex assets for its customers in virtually every engineering, environmental, construction, and project management capacity.

WSP understands the City's contracting process with hiring consultants under this contract through the Request for Letter of Interest (RLI) and has consistently responded to these letters of interest since awarded with the contract in 2019. We were awarded the Myakkahatchee Creek Environmental Park (MCEP) Restroom Replacement Project and are currently working with City staff on civil, structural, mechanical, electrical, geotechnical, survey and project management. After we secure the permits, we will be working with the City's Construction Manager at Risk (CMAR) to provide construction management and milestone inspections as the Engineer of Record. We have the experience and understanding to go after projects assigned under this contract and will continue to do all we can to provide the best possible service to the City.

Our team has significant and relevant project experience providing quality engineering services, similiar to the City's request, for various local municipalities, state and federal agencies, including Manatee and Sarasota Counties, City of Bradenton, Collier County, City of Naples, Monroe County, the Florida Department of Environmental Protection (FDEP), United States Army Corps of Engineers (USACE) and the U.S. Postal Service. We have also provided similar services for small- and large-scale projects for numerous private clients, as well as additional municipalities throughout Florida and the United States. Our team members are knowledgeable of state and local building codes and regulations and can provide full support with the capacity to handle any task required under this contract. From concept design to ribbon cutting, our team will get the job accomplished on time and within budget.

We have provided reference forms for a subset of these clients in Tab 6 and encourage the City to reach out to them personally to gather additional information on our services and exceptional quality being provided for similar services requested by the City.

The attached statement of qualifications outlines the top reasons the WSP team can provide unsurpassed service to the City of North Port, as demonstrated through our extensive experience in Florida and the breadth and depth of our key team members. Our team is uniquely qualified to support the City of North Port because of our direct expertise in providing the exact same services to southwest Florida municipalities, counties, and agencies during the past several decades. The following paragraphs highlight several of these unique qualifications.

- ✓ **Team's capacity to carry out the requested services:** The WSP team is comprised of experts in all of the fields of knowledge required for this multidisciplinary contract, including roadway and drainage infrastructure, facilities management, sustainability (LEED), environmental services, permitting services, surveying, geotechnical engineering, material testing, construction management, construction engineering and inspection, and

archeological services. Our Florida practice also hosts a full division of building science services, which includes threshold inspections and asbestos survey and removal.

- ✓ **A management structure to support multidisciplinary programs:** The team has demonstrated its ability to manage multidisciplinary contracts with our current existing continuing service contracts with Manatee and Sarasota Counties and many other local, state, and federal agencies for projects involving a diversity of tasks and projects requiring a variety of technical resources.
- ✓ **Capable of taking on multiple simultaneous assignments:** This is a large, deep, well-organized team that will respond quickly and efficiently to any of the City's support requests. Our project manager will ensure that the team provides the City with the necessary and appropriate resources to accomplish all tasks in a timely, cost-effective manner.

Although an international and multidisciplinary firm, WSP recognizes the importance of local community involvement. We understand that the City of North Port is a progressive City that is committed to enhancing residents' lives while preserving a heritage that is rich in culture and exquisite landscape. In an effort to contribute to that commitment, WSP continues to support the City by providing business and community participation.

WSP not only employs people who work in the area, but those who live there as well. Mr. Gregory Corning, PE, Project Manager, continues to be involved in the local community through professional associations such as American Water Resources Association (AWRA), United Way, American Society of Professional Engineers, and Florida Stormwater Association.

Mr. Corning will be the liaison for the City on all activities associated with this contract and will ensure all activities are being completed in accordance with the City's goals.

Why Select WSP

The following are several key points we would like you to consider as you review our proposal, as WSP possess:

- ► WSP has reviewed the City's Capital Improvement Plan and understands the need for adapting to the influx of development to meet the needs of the public and ensure assets are being maintained and upgraded to ensure continuation of services.
- ► Local engineers and inspectors that live and work throughout Southwest Florida
- ► Current excellent working relationship with stakeholders
- ► Experience in coordinating resident communications
- ► Knowledge of the permitting process from all applicable permitting agencies

All members of the WSP team are committed to this contract. The experience and availability of our staff will allow for the initiation and completion of all required tasks in a timely, technically sound, and cost-effective manner. WSP is dedicated to providing exemplary services to our clients and will spare no efforts in exceeding your expectations.

We look forward to further discussions of our capabilities and how we can assist you in your future needs. Should you have any questions or require additional information, please feel free to contact us at your convenience.

Sincerely,

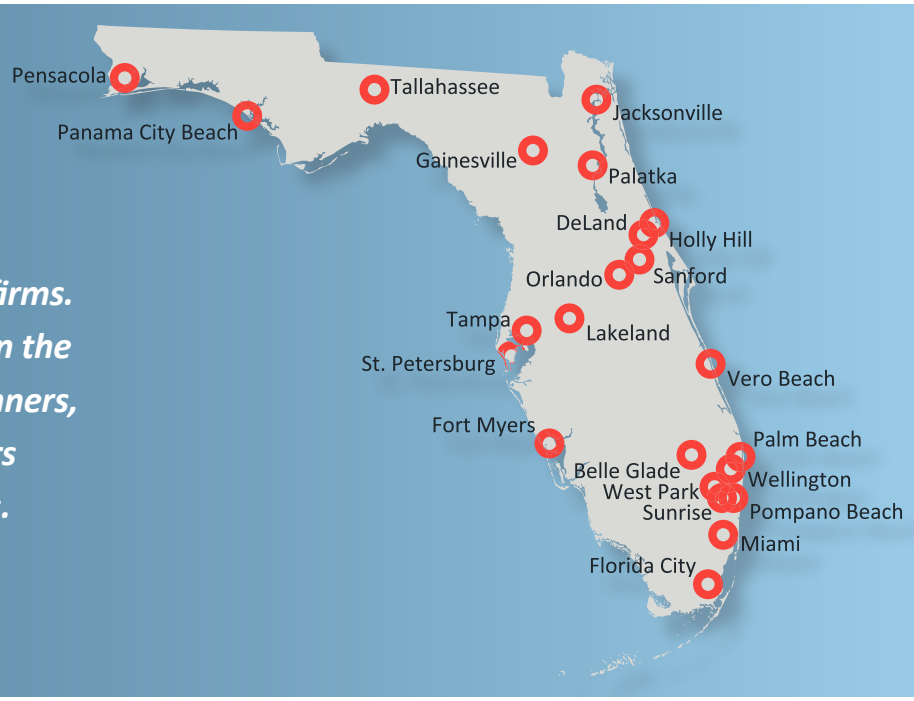
WSP USA Inc.

Gregory Corning, PE
Project Manager
(314) 920-8359
greg.corning@wsp.com

TAB 2
Qualifications of the Consultant Firm

Qualifications of the Firm

WSP is one of the world's leading engineering and professional services firms. A corporation licensed and registered in the State of Florida, we are engineers, planners, technical experts, and strategic advisors dedicated to serving local communities.



Company Profile

WSP is a globally recognized firm, with more than 67,000 employees worldwide. WSP has maintained a presence in Florida that spans more than five decades. With more than 1,400 people in offices located in every region of the state, including Pensacola, Panama City Beach, and Tallahassee, WSP has the local resources and ability to support the City. This project will be managed from our Tampa office.

WSP is a publicly traded company created from a combination of multiple engineering consulting firms (including Wood Environment & Infrastructure Solutions, Inc. [2022], Golder Associates, Inc. and Earth Consulting Group Inc. [2021], and Ecology and Environment Inc. [2019]) over a lengthy 150-year history.

Contact Person: Gregory Corning, PE

Email: greg.corning@wsp.com

Phone: (314) 920-8359

Office: (813) 520-4444

Fax: N/A

Address: 5411 Sky Center Drive, Suite 650, Tampa, Florida 33607

Website: www.wsp.com

Our Firm's 150-year History

- **1873** **E.C. Jordan Company** founded in Portland, ME
- **1987** E.C. Jordan Company purchased by **Combustion Engineering Environmental, Inc.**
- **1990** Acquired by **ABB Envionrmental Services, Inc.**
- **1998** HLA Acquired by **Harding Lawson Assocaites (HLA)**
- **2000** Acquired by MACTEC
- **2002** MACTEC acquires **Law Engineering and Environmental Services**
- **2011** amec acquires MACTEC
- **2015** AMEC and Foster Wheeler merge and become **Amec Foster Wheeler** (amec foster wheeler)
- **2017** wood. Wood Group & Amec Foster Wheeler join together forming **Wood PLC**
- **2022** Wood Environment & Infrastructure Solutions, Inc. acquired by WSP

State of Florida
Department of State

I certify from the records of this office that WSP USA INC. is a New York corporation authorized to transact business in the State of Florida, qualified on March 5, 1973.

The document number of this corporation is 829626.

I further certify that said corporation has paid all fees due this office through December 31, 2024, that its most recent annual report/uniform business report was filed on January 5, 2024, 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 Seventeenth day of January, 2024

Secretary of State

Tracking Number: 7062585296CU

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

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

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
North Port, Florida

2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER
January 31, 2024	No. 2024-14

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Gregory Corning, PE, Project Manager

5. NAME OF FIRM

WSP USA Inc. | UEI: LLWLXEU6T563 | Cage Code: 056668700 / 5D213

6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS
(314) 920-8359	N/A	greg.corning@wsp.com

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

	(Check) PRIME	JV PARTNER	SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X			WSP USA Environment & Infrastructure Inc. ☒☐ CHECK IF BRANCH OFFICE	550 North Lake Blvd. Suite 1000 Altamonte Springs, FL 32701	• Soil, Materials Testing, and Foundations • Surveying • Structures Design • Roadway and Transportation Infrastructure Design
b.	X			WSP USA Environment & Infrastructure Inc. ☒☐ CHECK IF BRANCH OFFICE	5015 South Florida Avenue, Suite 301 Lakeland, FL 33813	• GIS/CAD • Cost Estimating/Value Engineering • Drainage/Stormwater Infrastructure Design
c.	X			WSP USA Environment & Infrastructure Inc. ☒☐ CHECK IF BRANCH OFFICE	901 Northport Parkway, Suite 204 West Palm Beach, FL 33407	• Cost Estimating/Value Engineering • Soil, Materials Testing, and Foundations • Construction Engineering and Inspection (CEI)
d.	X			WSP USA Inc. ☒☐ CHECK IF BRANCH OFFICE	9428 Baymeadows Road, Suite 400 Jacksonville, FL 32256	• Drainage/Stormwater Infrastructure Design • Climate Adaption/Resiliency
e.	X			WSP USA Environment & Infrastructure Inc. ☒☐ CHECK IF BRANCH OFFICE	16250 NW 59th Avenue, Suite 206 Miami Lakes, FL 33014	• Permitting • Cost Estimating/Value Engineering • GIS/CAD • Construction Engineering and Inspection (CEI)
f.	X			WSP USA Environment & Infrastructure Inc. ☒☐ CHECK IF BRANCH OFFICE	3701 NW 98th Street Gainesville, FL 32606	• QA/QC • MEP • Drainage/Stormwater Infrastructure Design • GIS/CAD • Facility Assessment and Maintenance • Grant/Planning Services • Permitting
g.	X			WSP USA Inc. ☒☐ CHECK IF BRANCH OFFICE	3340 Peachtree Road, NE, Suite 2400, Tower Place Atlanta, GA 30326	• Grant/Planning Services
h.	X			WSP USA Inc. ☒☐ CHECK IF BRANCH OFFICE	5411 Skycenter Drive, Suite 650 Tampa, FL 33607	• Roadway and Transportation Infrastructure Design • Permitting • Climate Adaption/Resiliency • Structures Design • Construction Engineering and Inspection (CEI) • Drainage/Stormwater Infrastructure Design

i.	X			WSP USA Inc. ☒☐ CHECK IF BRANCH OFFICE	7650 Corporate Center Drive, Suite 300 Miami, FL 33126	• Climate Adaption/Resiliency
j.	X			WSP USA Environment & Infrastructure Inc. ☒☐ CHECK IF BRANCH OFFICE	1075 Big Shanty Road NW Suite 100 Kennesaw, GA 30144	• Facility Assessment and Maintenance • MEP
k.	X			WSP USA Inc. ☒☐ CHECK IF BRANCH OFFICE	225 N. Pace Boulevard Pensacola, fl 32505	• GIS/CAD
l.	X			WSP USA Environment & Infrastructure Inc. ☒☐ CHECK IF BRANCH OFFICE	511 Congress Street Portland, ME 04101	• Cost Estimating/Value Engineering
m.	X			WSP USA Inc. ☒☐ CHECK IF BRANCH OFFICE	169 Dauphin Street Mobile, AL 36602	• Structures Design
n.	X			WSP USA Inc. ☒☐ CHECK IF BRANCH OFFICE	1 East Pratt Street, Suite 300 Baltimore, MD 21202	• Climate Adaption/Resiliency
o.	X			WSP USA Inc. ☒☐ CHECK IF BRANCH OFFICE	1001 Morehead Square Drive, Suite 610 Charlotte, NC 28203	• Facility Assessment and Maintenance

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any): RFP No. 2024-14

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. UNIQUE ENTITY IDENTIFIER
WSP USA Environment & Infrastructure Inc.	**1994**	**C76NUJZDXL75**

2b. STREET	5. OWNERSHIP a. TYPE
550 North Lake Blvd. Suite 1000	**Corporation**

2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS
Altamonte Springs	**FL**	**32701**	**not applicable**

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM (If block 2a is a Branch Office)
Mark C. Diblin, PG, Office Manager	

6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS
352-363-5355	**mark.diblin@wsp.com**

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Wood Environment & Infrastructure Solutions, Inc. (2018 – 2022) Amec Foster Wheeler Environment & Infrastructure, Inc. (2015 – 2018) AMEC Environment & Infrastructure, Inc. (2011 – 2014) AMEC Earth & Environmental, Inc. (2000 – 2011) AGRA Earth & Environmental, Inc. (1994 – 2000)	1994	C76NUJZDXL75

Merger History: AMEC Michigan, Inc.; MACTEC Development Corporation; AMEC Geomatrix, Inc.; AMEC E&I Holdings, Inc.; AMEC-BCI Engineers & Scientists, Inc.; AMEC E&I, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc.

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
21	Electrical Engineers	21	1
24	Environmental Scientists	283	2
27	Foundation/Geotechnical Engineers	125	3
38	Land Surveyors	12	12
58	Technicians	366	2
60	Transportation Engineers	46	1
62	Water Resources Engineers	170	3
	Other Professional Staff	1957	--
	Total	**2980**	**24**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C15	Construction Management	3
I01/I02	Industrial/Manufacturing Facilities and Processes	2
O01	Office Buildings; Industrial Parks	2
P02	Petroleum and Fuel (Storage and Distribution)	3
R03/T06	Railroad, Rapid Transit, Tunnels, and Subway	3
T02	Testing & Inspection Services	2
W02/W03	Water Resources and Water Supply	3
	Design-Build	3
	Survey, Mapping, and Data Services	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS *(Insert revenue index number shown at right)*

a. Federal Work	10
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,00 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
Michael D Sufnarski	02/22/2023

c. NAME AND TITLE

Michael D. Sufnarski, PE, PMP Vice President, Government Sector Lead

AUTHORIZED FOR LOCAL REPRODUCTION

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: RFP No. 2024-14

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME **WSP USA Inc.** *(Includes area offices)*	3. YEAR ESTABLISHED: 1972 (area office) 4. UNIQUE ENTITY IDENTIFIER: LLWLXEU6T563
2b. STREET: 3340 Peachtree Road, NE, Suite 2400, Tower Place	5. OWNERSHIP a. TYPE: Corporation
2c. CITY: Atlanta 2d. STATE: GA 2e. ZIP CODE: 30326	b. SMALL BUSINESS STATUS: N/A
6a. POINT OF CONTACT NAME AND TITLE: Claudia Bilotto, District Leader	7. NAME OF FIRM *(If Block 2a is a Branch Office)*: WSP USA Inc.
6b. TELEPHONE NUMBER: +1 404-364-2651 6c. EMAIL ADDRESS: Claudia.Bilotto@wsp.com	

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Golder Associates Inc.	1980	T8Z7TATUJFS8

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	1,536	76
05	Archaeologist	59	1
07	Biologist	41	2
12	Civil Engineer	926	22
16	Construction Manager	325	6
18	Cost Engineer/Estimator	38	3
23	Environmental Engineer	202	3
24	Environmental Scientist	414	10
27	Foundation/Geotechnical Engineer	257	14
29	Geographic Information System Specialist	48	1
30	Geologist	324	14
32	Hydraulics Engineer	4	1
47	Planner: Urban/Regional	97	3
48	Project Manager	168	7
53	Scheduler	103	4
57	Structural Engineer	574	6
60	Transportation Engineer	568	25
62	Water Resources Engineer	243	6
	Aviation Engineer/Planner	68	8
	Bridge Engineer	61	1
	Environmental Planner	107	7
	Historian	5	1
	Power Engineer	57	1
	Transportation Planner	240	10
	Other Employees	2,724	28
	Total	**9,189**	**260**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals and Hangars; Freight Handling	10
B02	Bridges	10
C15	Construction Management	10
D04	Design-Build – Preparation of Requests for Proposals	7
E09	Environmental Studies; Assessments or Statements	9
E11	Environmental Planning	10
E12	Environmental Remediation	9
G01	Garages; VMF; Parking Decks	7
H07	Highways; Streets; Airfield Paving; Parking Lots	10
I04	Intelligent Transport System	9
P05	Planning (Community, Regional, Area wide and State)	10
P06	Planning (Site, Installation, and Project)	8
P12	Power Generation, Transmission, Distribution	10
R03	Railroad; Rapid Transit	10
T03	Traffic and Transportation Engineering	10
T06	Tunnels & Subways	10
W02	Water Resources; Hydrology; Ground Water	8

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

(Insert revenue index number shown at right)

a. Federal Work	9
b. Non-Federal Work	10
c. Total Work	10

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: Claudia M Bilotto

b. DATE: May 2023*

c. NAME AND TITLE: Claudia Bilotto, District Leader

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ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: RFP No. 2024-14

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME: **WSP USA Inc.**	3. YEAR ESTABLISHED: 1984 (area office)
	4. UNIQUE ENTITY IDENTIFIER: W8HQNL18LKL6
2b. STREET: 1 East Pratt Street, Suite 300	5. OWNERSHIP
	a. TYPE: Corporation
2c. CITY: Baltimore	2d. STATE: MD / 2e. ZIP CODE: 21202
	b. SMALL BUSINESS STATUS: N/A
6a. POINT OF CONTACT NAME AND TITLE: Rolando Amaya, District Leader	7. NAME OF FIRM *(If Block 2a is a Branch Office)*: WSP USA Inc.
6b. TELEPHONE NUMBER: +1 202-783-3092	6c. EMAIL ADDRESS: Rolando.Amaya@wsp.com

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	1,536	29
05	Archaeologist	59	3
06	Architect	98	5
07	Biologist	41	1
08	CADD Technician	216	4
12	Civil Engineer	926	18
15	Construction Inspector	474	45
16	Construction Manager	325	12
21	Electrical Engineer	99	7
24	Environmental Scientist	414	12
27	Foundation/Geotechnical Engineer	257	2
29	Geographic Information System Specialist	48	1
39	Landscape Architect	6	1
42	Mechanical Engineer	112	5
47	Planner: Urban/Regional	97	3
48	Project Manager	168	10
57	Structural Engineer	574	9
60	Transportation Engineer	568	17
62	Water Resources Engineer	243	16
	Aviation Engineer/Planner	68	1
	Bridge Engineer	61	2
	Communications/Public Involvement	97	1
	Environmental Planner	107	1
	Transit & Rail	44	2
	Transportation Planner	240	17
	Other Employees	2,311	30
	Total	**9,189**	**254**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals and Hangars; Freight Handling	10
B02	Bridges	10
C15	Construction Management	10
D04	Design-Build – Preparation of Requests for Proposals	7
E02	Educational Facilities; Classrooms	8
E09	Environmental Studies, Assessments or Statements	9
G01	Garages; VMF; Parking Decks	7
H07	Highways; Streets; Airfield Paving; Parking Lots	10
H12	Hydraulics & Pneumatics	2
I04	Intelligent Transportation Systems	9
L03	Landscape Architecture	7
P05	Planning (Community, Regional, Areawide and State)	10
P06	Planning (Site, Installation, and Project)	8
P12	Power Generation, Transmission	10
R03	Railroad; Rapid Transit	10
S13	Storm Water Handling & Facilities	8
T03	Traffic and Transportation Engineering	10
T06	Tunnels and Subways	10
W02	Water Resources; Hydrology; Ground Water	8

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

(Insert revenue index number shown at right)

a. Federal Work	9
b. Non-Federal Work	10
c. Total Work	10

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: May 2023*
c. NAME AND TITLE: Rolando Amaya, District Leader	

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: RFP No. 2024-14

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME: **WSP USA Inc.**	3. YEAR ESTABLISHED: 1999 (area office)
	4. UNIQUE ENTITY IDENTIFIER: LLWLXEU6T563
2b. STREET: 1001 Morehead Square Drive, Suite 610	5. OWNERSHIP
2c. CITY: Charlotte	a. TYPE: Corporation
2d. STATE: NC	b. SMALL BUSINESS STATUS: N/A
2e. ZIP CODE: 28203	7. NAME OF FIRM *(If Block 2a is a Branch Office)*: WSP USA Inc.
6a. POINT OF CONTACT NAME AND TITLE: Claudia Bilotto, District Leader	
6b. TELEPHONE NUMBER: +1 404-364-2651	6c. EMAIL ADDRESS: Claudia.Bilotto@wsp.com

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	1,536	16
08	CADD Technician	216	2
12	Civil Engineer	926	11
14	Computer Programmer	94	1
15	Construction Inspector	474	5
16	Construction Manager	325	1
21	Electrical Engineer	99	1
24	Environmental Scientist	414	3
29	Geographic Information System Specialist	48	1
42	Mechanical Engineer	112	1
47	Planner: Urban/Regional	97	2
53	Scheduler	103	6
57	Structural Engineer	574	5
60	Transportation Engineer	568	13
62	Water Resources Engineer	243	7
	Asset Management	29	1
	Aviation Engineer/Planner	68	3
	Communications/Public Involvement	97	2
	Environmental Planner	107	1
	Quality Management/Quality Assurance	42	1
	Transportation Planner	240	2
	Other Employees	2,777	
	Total	**9,189**	**85**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals and Hangars; Freight Handling	10
B02	Bridges	10
D04	Design-Build – Preparation of Requests for Proposals	7
E11	Environmental Planning	10
H01	Harbors; Jetties; Piers, Ship Terminal Facilities	8
H07	Highways; Streets; Airfield Paving; Parking Lots	10
L03	Landscape Architecture	7
P05	Planning (Community, Regional, Area wide and State)	10
P06	Planning (Site, Installation and Project)	8
R03	Railroad; Rapid Transit	10
S04	Sewage Collection, Treatment and Disposal	7
S13	Storm Water Handling & Facilities	8
T03	Traffic and Transportation Engineering	10
W02	Water Resources; Hydrology; Ground Water	8
W03	Water Supply; Treatment and Distribution	8

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

(Insert revenue index number shown at right)

a. Federal Work	9
b. Non-Federal Work	10
c. Total Work	10

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: Claudia M Bilotto	b. DATE: May 2023*
c. NAME AND TITLE: Claudia Bilotto, District Leader	

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ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any): RFP No. 2024-14

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. UNIQUE ENTITY IDENTIFIER
WSP USA Environment & Infrastructure Inc.	**1994**	**C76NUJZDXL75**

2b. STREET	5. OWNERSHIP
3701 NW 98th Street	a. TYPE: **Corporation**

2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS
Gainesville	**FL**	**32606**	**not applicable**

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM (If block 2a is a Branch Office)
Mark C. Diblin, PG, Office Manager	

6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS
352-363-5355	**mark.diblin@wsp.com**

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Wood Environment & Infrastructure Solutions, Inc. (2018 – 2022) Amec Foster Wheeler Environment & Infrastructure, Inc. (2015 – 2018) AMEC Environment & Infrastructure, Inc. (2011 – 2014) AMEC Earth & Environmental, Inc. (2000 – 2011) AGRA Earth & Environmental, Inc. (1994 – 2000)	1994	C76NUJZDXL75

Merger History: AMEC Michigan, Inc.; MACTEC Development Corporation; AMEC Geomatrix, Inc.; AMEC E&I Holdings, Inc.; AMEC-BCI Engineers & Scientists, Inc.; AMEC E&I, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc.

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	(2) BRANCH
07	Biologists	59	3
10	Chemical Engineers	27	1
11	Chemists	30	3
12	Civil Engineers	214	3
19	Ecologists	12	2
21	Electrical Engineers	21	1
23	Environmental Engineers	145	5
24	Environmental Scientists	283	6
29	GIS Specialists	104	1
30	Geologists	271	1
42	Mechanical Engineers	43	6
58	Technicians	366	7
62	Water Resources Engineers	170	5
	Air Quality Specialists	10	4
	Graphic Designers	3	1
	Information Technologist/Database Specialist	12	1
	Project Services	427	5
	Quality Assurance Specialists	8	1
	Other Professional Staff	775	--
	Total	**2980**	**56**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C15	Construction Management	3
E07	Energy Conservation; New Energy Sources	4
M05	Military Design Standards	5
R03/T06	Railroad, Rapid Transit, Tunnels, and Subway	3
S05	Soils & Geologic Studies, Foundations	3
S08	Special Environments; Clean Rooms, Etc.	7
W02/W03	Water Resources and Water Supply	4
	Design-Build	3
	Survey, Mapping, and Data Services	3

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)

a. Federal Work	10
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,00 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
Michael D Sufnarski	02/22/2023

c. NAME AND TITLE

Michael D. Sufnarski, PE, PMP Vice President, Government Sector Lead

AUTHORIZED FOR LOCAL REPRODUCTION

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: RFP No. 2024-14

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME: **WSP USA Inc.**	3. YEAR ESTABLISHED: 2006 (area office)
	4. UNIQUE ENTITY IDENTIFIER: LLWLXEU6T563
2b. STREET: 9428 Baymeadows Road, Suite 400	5. OWNERSHIP
2c. CITY: Jacksonville; 2d. STATE: FL; 2e. ZIP CODE: 32256	a. TYPE: Corporation
	b. SMALL BUSINESS STATUS: N/A
6a. POINT OF CONTACT NAME AND TITLE: Claudia Bilotto, District Leader	7. NAME OF FIRM *(If Block 2a is a Branch Office)*: WSP USA Inc.
6b. TELEPHONE NUMBER: +1 404-364-2651; 6c. EMAIL ADDRESS: Claudia.Bilotto@wsp.com	

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Golder Associates USA Inc.	2021	RBH4XQJE2PN8
Golder Associates Inc.	1980	K39LQ2A7NMQ2

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	1,536	3
07	Biologist	41	2
10	Chemical Engineer	14	2
12	Civil Engineer	926	6
23	Environmental Engineer	202	8
24	Environmental Scientist	414	5
27	Foundation/Geotechnical Engineer	257	1
30	Geologist	324	8
51	Safety/Occupational Health Engineer	35	2
58	Technician/Analyst	439	3
60	Transportation Engineer	568	1
62	Water Resources Engineer	243	1
	Infrastructure/Operations	74	1
	Maritime Engineer	79	1
	Transit & Rail	44	1
	Other Employees	3,993	
	Total	**9,189**	**45**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
B02	Bridges	10
C15	Construction Management	10
D04	Design-Build – Preparation of Requests for Proposals	7
E09	Environmental Studies, Assessments or Statements	9
H01	Harbors; Jetties; Piers, Ship Terminal Facilities	8
H07	Highways; Streets; Airfield Paving; Parking Lots	10
I04	Intelligent Transportation Systems	9
I06	Irrigation; Drainage	7
P05	Planning (Community, Regional, Area Wide and State)	10
P06	Planning (Site, Installation and Project)	8
R03	Railroad; Rapid Transit	10
S04	Sewage Collection, Treatment, and Disposal	7
T03	Traffic and Transportation Engineering	10
W03	Water Supply; Treatment and Distribution	8

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

(Insert revenue index number shown at right)

a. Federal Work	9
b. Non-Federal Work	10
c. Total Work	10

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: Claudia M Bilotto

b. DATE: May 2023*

c. NAME AND TITLE: Claudia Bilotto, District Leader

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*Reflects staff and revenue as of this date

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any): RFP No. 2024-14

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. UNIQUE ENTITY IDENTIFIER
WSP USA Environment and Infrastructure Inc. (includes Atlanta office)	**1994**	**C76NUJZDXL75**

2b. STREET	5. OWNERSHIP a. TYPE
1075 Big Shanty Road NW, Suite 100	**Corporation**

2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS
Kennesaw	**GA**	**30144**	**not applicable**

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM (If block 2a is a Branch Office)
David Sikes, Office Manager	

6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS
(404) 817-0105	**David.sikes@wsp.com**

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Wood Environment & Infrastructure Solutions, Inc. (2018 – 2022) Amec Foster Wheeler Environment & Infrastructure, Inc. (2015 – 2018) AMEC Environment & Infrastructure, Inc. (2011 – 2014) AMEC Earth & Environmental, Inc. (2000 – 2011) AGRA Earth & Environmental, Inc. (1994 – 2000)	1994	C76NUJZDXL75

Merger History: AMEC Michigan, Inc.; MACTEC Development Corporation; AMEC Geomatrix, Inc.; AMEC E&I Holdings, Inc.; AMEC-BCI Engineers & Scientists, Inc.; AMEC E&I, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc.

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
06	Architect	17	6
08/29	CADD Technicians/GIS Specialists	166	10
12	Civil Engineers	214	36
14	Computer Programmers	20	5
15/16	Construction Inspectors/Managers	180	65
18	Cost Engineers/Estimators	5	2
21	Electrical Engineers	21	9
23	Environmental Engineers	145	12
24	Environmental Scientists	283	3
27	Foundation/Geotechnical Engineers	125	16
30	Geologists	271	11
39	Landscape Architects	4	3
42	Mechanical Engineers	43	13
47	Planners: Urban/ Regional/Environmental	24	3
48	Project Managers	71	48
58	Technicians	366	104
60	Transportation Engineers	46	8
60	Quality Assurance Specialist	8	3
	Project Services	427	103
	Other Professional	544	4
	Total	**2980**	**464**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C15	Construction Management	8
E09	Env. Impact Studies/ Assessments/Statements	5
E12	Environmental Remediation	5
H02	Hazardous Materials Handling and Storage	4
H03	HTRW Remediation	5
I01/I02	Industrial/Manufacturing Facilities and Processes	7
M05	Military Design Standards	7
O03	Ordnance, Munitions, Special Weapons	9
P02	Petroleum and Fuel (Storage and Distribution)	7
P06	Planning (Site, Installation, and Project)	5
R03/T06	Railroad, Rapid Transit, Tunnels, and Subway	4
T02	Testing & Inspection Services	8
T03	Traffic & Transportation Engineering	6
W01	Construction Management	4
W02/W 03	Water Resources and Water Supply	5
	Design-Build	8
	M/E/P Engineering	7
	Survey, Mapping, and Data Services	7
	Waste Management	3

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)

a. Federal Work	10
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,00 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
Michael D Sufnarski	02/22/2023

c. NAME AND TITLE

Michael D. Sufnarski, PE, PMP Vice President, Government Sector Lead

AUTHORIZED FOR LOCAL REPRODUCTION

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any): RFP No. 2024-14

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. UNIQUE ENTITY IDENTIFIER
WSP USA Environment & Infrastructure Inc.	**1994**	**C76NUJZDXL75**

5. OWNERSHIP

2b. STREET	a. TYPE
5015 South Florida Avenue, Suite 301	**Corporation**

2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS
Lakeland	**FL**	**33813**	**not applicable**

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM (If block 2a is a Branch Office)
Christine Mehle, Water Resource & Infrastructure Service Line Lead	

6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS
(863) 667-2345	**christine.mehle@wsp.com**

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Wood Environment & Infrastructure Solutions, Inc. (2018 – 2022) Amec Foster Wheeler Environment & Infrastructure, Inc. (2015 – 2018) AMEC Environment & Infrastructure, Inc. (2011 – 2014) AMEC Earth & Environmental, Inc. (2000 – 2011) AGRA Earth & Environmental, Inc. (1994 – 2000)	1994	C76NUJZDXL75

Merger History: AMEC Michigan, Inc.; MACTEC Development Corporation; AMEC Geomatrix, Inc.; AMEC E&I Holdings, Inc.; AMEC-BCI Engineers & Scientists, Inc.; AMEC E&I, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc.

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
08	CADD Technicians	62	2
12	Civil Engineers	214	4
15	Construction Inspectors	116	1
25	Fire Protection Engineer	3	1
58	Technicians	366	5
	Project Services	427	6
	Other Professional Staff	1792	--
	Total	**2980**	**19**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C15	Construction Management	5
D01/D02	Dams, Dikes, Levees	4
R03/T06	Railroad, Rapid Transit, Tunnels, and Subway	3
R11	Rivers; Canals; Waterways; Flood Control	4
S13	Storm Water Handling & Facilities	4
T02	Testing & Inspection Services	3
T03	Traffic & Transportation Engineering	4
W02/W03	Water Resources and Water Supply	5
	Design-Build	3
	M/E/P Engineering	2
	Survey, Mapping, and Data Services	4

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)

a. Federal Work	10
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,00 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
Michael D Sufnarski	02/22/2023

c. NAME AND TITLE

Michael D. Sufnarski, PE, PMP Vice President, Government Sector Lead

AUTHORIZED FOR LOCAL REPRODUCTION

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: RFP No. 2024-14

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME: **WSP USA Inc.**	3. YEAR ESTABLISHED: 1977 (area office)
	4. UNIQUE ENTITY IDENTIFIER: LLWLXEU6T563
2b. STREET: 7650 Corporate Center Drive, Suite 300	5. OWNERSHIP
2c. CITY: Miami; 2d. STATE: FL; 2e. ZIP CODE: 33126	a. TYPE: Corporation
	b. SMALL BUSINESS STATUS: N/A
6a. POINT OF CONTACT NAME AND TITLE: Claudia Bilotto, District Leader	7. NAME OF FIRM *(If Block 2a is a Branch Office)*: WSP USA Inc.
6b. TELEPHONE NUMBER: +1 404-364-2651; 6c. EMAIL ADDRESS: Claudia.Bilotto@wsp.com	

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	1,536	37
06	Architect	98	3
08	CADD Technician	216	3
12	Civil Engineer	926	9
14	Computer Programmer	94	1
15	Construction Inspector	474	12
16	Construction Manager	325	30
21	Electrical Engineer	99	1
24	Environmental Scientist	414	1
27	Foundation/Geotechnical Engineer	257	1
47	Planner: Urban/Regional	97	1
48	Project Manager	168	9
53	Scheduler	103	7
57	Structural Engineer	574	4
58	Technician/Analyst	439	7
60	Transportation Engineer	568	7
62	Water Resources Engineer	243	8
	Communications/Public Involvement	97	4
	Data Scientist	54	1
	Infrastructure/Operations	74	1
	Maritime Engineer	79	1
	Mobility Operations	168	10
	Operations & Maintenance	115	1
	Transportation Planner	240	8
	Other Employees	1,731	
	Total	**9,189**	**167**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals and Hangars; Freight Handling	10
B02	Bridges	10
C15	Construction Management	10
D04	Design-Build – Preparation of Requests for Proposals	7
E02	Educational Facilities; Classrooms	8
E09	Environmental Studies, Assessments Statements	9
E11	Environmental Planning	10
E12	Environmental Remediation	9
H01	Harbors; Jetties; Piers, Ship Terminal Facilities	8
H07	Highways; Streets; Airfield Paving; Parking	10
P05	Planning (Community, Regional, Area wide and State)	10
P06	Planning (Site, Installation, and Project)	8
R03	Railroad; Rapid Transit	10
S04	Sewage Collection, Treatment and Disposal	7
S13	Storm Water Handling & Facilities	8
T03	Traffic and Transportation Engineering	10
W03	Water Supply; Treatment and Distribution	8

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

(Insert revenue index number shown at right)

a. Federal Work	9
b. Non-Federal Work	10
c. Total Work	10

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: Claudia M Bilotto

b. DATE: May 2023*

c. NAME AND TITLE: Claudia Bilotto, District Leader

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any): RFP No. 2024-14

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. UNIQUE ENTITY IDENTIFIER
WSP USA Environment & Infrastructure Inc.	**1994**	**C76NUJZDXL75**

2b. STREET	5. OWNERSHIP a. TYPE
16250 NW 59th Avenue, Suite 206	**Corporation**

2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS
Miami Lakes	**FL**	**33014**	**not applicable**

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM (If block 2a is a Branch Office)
Brian Hathaway, Transportation & Engineered Construction Service Line Lead	

6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS
(305) 826-5588	**brian.hathaway@wsp.com**

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Wood Environment & Infrastructure Solutions, Inc. (2018 – 2022) Amec Foster Wheeler Environment & Infrastructure, Inc. (2015 – 2018) AMEC Environment & Infrastructure, Inc. (2011 – 2014) AMEC Earth & Environmental, Inc. (2000 – 2011) AGRA Earth & Environmental, Inc. (1994 – 2000)	1994	C76NUJZDXL75

Merger History: AMEC Michigan, Inc.; MACTEC Development Corporation; AMEC Geomatrix, Inc.; AMEC E&I Holdings, Inc.; AMEC-BCI Engineers & Scientists, Inc.; AMEC E&I, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc.

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
06	Architects	17	1
08	CADD Technicians	62	1
12	Civil Engineers	214	1
15	Construction Inspectors	116	3
16	Construction Managers	64	1
23	Environmental Engineers	145	3
24	Environmental Scientists	283	2
27	Foundation/Geotechnical Engineers	125	1
30	Geologist	271	1
40	Materials Engineers	23	1
58	Technicians	366	1
62	Water Resources Engineers	170	1
	Project Services	427	4
	Other Professional Staff	697	--
	Total	**2980**	**21**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C15	Construction Management	2
E09	Env. Impact Studies/ Assessments/Statements	4
H02	Hazardous Materials Handling and Storage	2
H03	HTRW Remediation	4
I01/I02	Industrial/Manufacturing Facilities and Processes	2
O01	Office Buildings; Industrial Parks	2
P02	Petroleum and Fuel (Storage and Distribution)	5
R03/T06	Railroad, Rapid Transit, Tunnels, and Subway	3
R11	Rivers; Canals; Waterways; Flood Control	5
T02	Testing & Inspection Services	3
W02/W03	Water Resources and Water Supply	4
	Survey, Mapping, and Data Services	2

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS *(Insert revenue index number shown at right)*

a. Federal Work	10
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,00 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
Michael D Sufnarski	02/22/2023

c. NAME AND TITLE

Michael D. Sufnarski, PE, PMP Vice President, Government Sector Lead

AUTHORIZED FOR LOCAL REPRODUCTION

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: RFP No. 2024-14

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME: **WSP USA Inc.**	3. YEAR ESTABLISHED: 2013 (area office)
	4. UNIQUE ENTITY IDENTIFIER: LLWLXEU6T563
2b. STREET: 169 Dauphin Street	5. OWNERSHIP
2c. CITY: Mobile; 2d. STATE: AL; 2e. ZIP CODE: 36602	a. TYPE: Corporation
	b. SMALL BUSINESS STATUS: N/A
6a. POINT OF CONTACT NAME AND TITLE: Claudia Bilotto, District Leader	7. NAME OF FIRM *(If Block 2a is a Branch Office)*: WSP USA Inc.
6b. TELEPHONE NUMBER: +1 404-364-2651; 6c. EMAIL ADDRESS: Claudia.Bilotto@wsp.com	

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
14	Computer Programmer	94	1
24	Environmental Scientist	414	2
	Other Employees	8,681	
	Total	**9,189**	**3**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals and Hangars; Freight Handling	10
B02	Bridges	10
C15	Construction Management	10
E09	Environmental Studies, Assessments or Statements	9
E11	Environmental Planning	10
E12	Environmental Remediation	9
H07	Highways; Streets; Airfield Paving; Parking Lots	10
P05	Planning (Community, Regional, Area wide and State)	10
P06	Planning (Site, Installation, and Project)	8
R03	Railroad; Rapid Transit	10
S04	Sewage Collection, Treatment and Disposal	7
S13	Storm Water Handling & Facilities	8
T03	Traffic & Transportation Engineering	10
W02	Water Resources; Hydrology; Ground Water	8
W03	Water Supply, Treatment & Distribution	8

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

(Insert revenue index number shown at right)

a. Federal Work	9
b. Non-Federal Work	10
c. Total Work	10

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: Claudia M Bilotto

b. DATE: May 2023*

c. NAME AND TITLE: Claudia Bilotto, District Leader

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ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: RFP No. 2024-14

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME: **WSP USA Inc.**	3. YEAR ESTABLISHED: 2020 (area office)
	4. UNIQUE ENTITY IDENTIFIER: LLWLXEU6T563
2b. STREET: 225 N. Pace Boulevard	5. OWNERSHIP
	a. TYPE: Corporation
2c. CITY: Pensacola	2d. STATE: FL / 2e. ZIP CODE: 32505
	b. SMALL BUSINESS STATUS: N/A
6a. POINT OF CONTACT NAME AND TITLE: Claudia Bilotto, District Leader	7. NAME OF FIRM *(If Block 2a is a Branch Office)*: WSP USA Inc.
6b. TELEPHONE NUMBER: +1 404-364-2651	6c. EMAIL ADDRESS: Claudia.Bilotto@wsp.com

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Golder Associates Inc.	1980	T8Z7TATUJFS8

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	1,536	4
15	Construction Inspector	474	8
16	Construction Manager	325	2
24	Environmental Scientist	414	1
30	Geologist	324	1
	Other Employees	6,116	
	Total	**9,189**	**16**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals and Hangars; Freight Handling	10
B02	Bridges	10
C15	Construction Management	10
E09	Environmental Studies; Assessments or Statements	9
E11	Environmental Planning	10
E12	Environmental Remediation	9
G01	Garages; VMF; Parking Decks	7
H07	Highways; Streets; Airfield Paving; Parking Lots	10
I04	Intelligent Transportation Systems	9
L03	Landscape Architecture	7
O01	Office Buildings; Industrial Parks	7
P05	Planning (Community, Regional, Area wide and State)	10
P06	Planning (Site, Installation, and Project)	8
R03	Railroad; Rapid Transit	10
S04	Sewage Collection, Treatment and Disposal	7
T03	Traffic & Transportation Engineering	10

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

(Insert revenue index number shown at right)

a. Federal Work	9
b. Non-Federal Work	10
c. Total Work	10

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: Claudia M Bilotto

b. DATE: May 2023*

c. NAME AND TITLE: Claudia Bilotto, District Leader

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*Reflects staff and revenue as of this date

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any): RFP No. 2024-14

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. UNIQUE ENTITY IDENTIFIER
WSP USA Environment & Infrastructure Inc.	**1994**	**C76NUJZDXL75**

2b. STREET	5. OWNERSHIP a. TYPE
511 Congress Street	**Corporation**

2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS
Portland	**ME**	**04101**	**not applicable**

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM (If block 2a is a Branch Office)
Jayme Connolly, Operations Manager	

6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS
(207) 775-5401	**jayme.connolly@wsp.com**

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Wood Environment & Infrastructure Solutions, Inc. (2018 – 2022) Amec Foster Wheeler Environment & Infrastructure, Inc. (2015 – 2018) AMEC Environment & Infrastructure, Inc. (2011 – 2014) AMEC Earth & Environmental, Inc. (2000 – 2011) AGRA Earth & Environmental, Inc. (1994 – 2000)	1994	C76NUJZDXL75

Merger History: AMEC Michigan, Inc.; MACTEC Development Corporation; AMEC Geomatrix, Inc.; AMEC E&I Holdings, Inc.; AMEC-BCI Engineers & Scientists, Inc.; AMEC E&I, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc.

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	(2) BRANCH
06	Architects	13	5
08/29	CADD Technicians/GIS Specialists	145	7
10	Chemical Engineer	18	1
11	Chemists	24	7
12	Civil Engineers	202	4
14	Computer Programmers	21	2
18	Cost Engineers/Estimators	4	2
23	Environmental Engineers	155	19
24	Environmental Scientists	285	22
27	Foundation/Geotechnical Engineers	124	3
30	Geologists	264	16
42	Mechanical Engineers	34	3
48	Project Managers	79	4
51	Safety/Occupational Health Engineers	16	1
57	Structural Engineers	33	2
58	Technicians	418	4
	Hydrogeologists	21	5
	Project Services	395	13
	Regulatory Compliance Specialists	1	1
	Other Professional Staff	546	2
	Total	**2798**	**123**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C15	Construction Management	2
E09	Env. Impact Studies/Assessments/Statements	5
E12	Environmental Remediation	7
H02	Hazardous Materials Handling and Storage	6
H03	HTRW Remediation	6
I01/I02	Industrial/Manufacturing Facilities and Processes	8
O03	Ordnance, Munitions, Special Weapons	4
P02	Petroleum and Fuel (Storage and Distribution)	3
T02	Testing & Inspection Services	2
W02/W03	Water Resources and Water Supply	5
	Design-Build	6
	M/E/P Engineering	3
	Survey, Mapping, and Data Services	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)

a. Federal Work	10
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,00 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
Michael D Sufnarski	02/06/2024

c. NAME AND TITLE

Michael D. Sufnarski, PE, PMP Vice President, Government Sector Lead

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ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: RFP No. 2024-14

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME **WSP USA Inc.** *(Includes area offices)*	3. YEAR ESTABLISHED: 1986 (area office) 4. UNIQUE ENTITY IDENTIFIER: LLWLXEU6T563
2b. STREET: 5411 Skycenter Drive, Suite 650	5. OWNERSHIP a. TYPE: Corporation
2c. CITY: Tampa 2d. STATE: FL 2e. ZIP CODE: 33607	b. SMALL BUSINESS STATUS: N/A
6a. POINT OF CONTACT NAME AND TITLE: Claudia Bilotto, District Leader	7. NAME OF FIRM *(If Block 2a is a Branch Office)*: WSP USA Inc.
6b. TELEPHONE NUMBER: +1 404-364-2651 6c. EMAIL ADDRESS: Claudia.Bilotto@wsp.com	

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Golder Associates Inc.	1980	PH8DA97H4FK4

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	1,536	35
08	CADD Technician	216	11
12	Civil Engineer	926	29
15	Construction Inspector	474	4
16	Construction Manager	325	5
21	Electrical Engineer	99	4
23	Environmental Engineer	202	2
24	Environmental Scientist	414	2
27	Foundation/Geotechnical Engineer	257	3
30	Geologist	324	6
42	Mechanical Engineer	112	6
47	Planner: Urban/Regional	97	1
48	Project Manager	168	5
51	Safety/Occupational Health Engineer	35	1
53	Scheduler	103	1
57	Structural Engineer	574	20
58	Technician/Analyst	439	7
60	Transportation Engineer	568	16
62	Water Resources Engineer	243	1
	Aviation Engineer/Planner	68	1
	Bridge Engineer	61	3
	Communications/Public Involvement	97	2
	Environmental Planner	107	3
	Hydrogeologist	42	1
	Intern	150	1
	Maritime Engineer	79	2
	Petroleum Engineer	28	1
	Transit & Rail	44	1
	Transportation Planner	240	11
	Other Employees	1,136	
	Total	**9,189**	**185**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
B02	Bridges	10
C15	Construction Management	10
D04	Design-Build – Preparation of Requests for Proposals	7
E09	Environmental Studies, Assessments or Statements	9
H01	Harbors; Jetties; Piers, Ship Terminal Facilities	8
H07	Highways; Streets; Airfield Paving; Parking Lots	10
I04	Intelligent Transportation Systems	9
I06	Irrigation; Drainage	7
P05	Planning (Community, Regional, Area Wide and State)	10
P06	Planning (Site, Installation and Project)	8
R03	Railroad; Rapid Transit	10
S04	Sewage Collection, Treatment, and Disposal	7
T03	Traffic and Transportation Engineering	10
W03	Water Supply; Treatment and Distribution	8

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

(Insert revenue index number shown at right)

a. Federal Work	9
b. Non-Federal Work	10
c. Total Work	10

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: Claudia M Bilotto

b. DATE: May 2023*

c. NAME AND TITLE: Claudia Bilotto, District Leader

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*Reflects staff and revenue as of this date

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any): RFP No. 2024-14

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. UNIQUE ENTITY IDENTIFIER
WSP USA Environment & Infrastructure Inc.	**1994**	**C76NUJZDXL75**

2b. STREET	5. OWNERSHIP a. TYPE
901 Northport Parkway, Suite 204	**Corporation**

2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS
West Palm Beach	**FL**	**33407**	**not applicable**

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM (If block 2a is a Branch Office)
Brian Hathaway, Transportation & Engineered Construction Service Line Lead	

6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS
(561) 242-7713	**brian.hathaway@wsp.com**

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Wood Environment & Infrastructure Solutions, Inc. (2018 – 2022) Amec Foster Wheeler Environment & Infrastructure, Inc. (2015 – 2018) AMEC Environment & Infrastructure, Inc. (2011 – 2014) AMEC Earth & Environmental, Inc. (2000 – 2011) AGRA Earth & Environmental, Inc. (1994 – 2000)	1994	C76NUJZDXL75

Merger History: AMEC Michigan, Inc.; MACTEC Development Corporation; AMEC Geomatrix, Inc.; AMEC E&I Holdings, Inc.; AMEC-BCI Engineers & Scientists, Inc.; AMEC E&I, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc.

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	(2) BRANCH
12	Civil Engineers	214	1
15	Construction Inspectors	116	8
16	Construction Managers	64	1
27	Foundation/Geotechnical Engineers	125	6
30	Geologists	271	1
40	Materials Engineers	23	1
58	Technician	366	9
62	Water Resources Engineer	170	1
	Project Services	427	3
	Other Professional Staff	1204	--
	Total	**2980**	**31**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C15	Construction Management	3
T02	Testing & Inspection Services	4
T03	Traffic & Transportation Engineering	2
W02/W03	Water Resources and Water Supply	3

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)

a. Federal Work	10
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000	6. $2 million to less than $5 million
2. $100,00 to less than $250,000	7. $5 million to less than $10 million
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
Michael D Sufnarski	02/22/2023

c. NAME AND TITLE

Michael D. Sufnarski, PE, PMP Vice President, Government Sector Lead

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TAB 3
Qualifications of Project Team/Project Manager Experience

Qualifications of the Project Team/Project Manager Experience

WSP has provided full-service design and consulting solutions to public and private clients throughout Florida for more than 50 years. The company employs more than 200 highly qualified and experienced professionals in the Central Florida area who have full access to WSP's broader resource base, which includes approximately 67,000 professionals located across Florida, the United States, and the globe.

KEY PERSONNEL

The project team is headed by **Christine Mehle, PE, CFM, ENV SP**, who will be serving as Principal-in-Charge to assure that the City of North Port receives excellent client service throughout the entire duration of this contract. Christine has served as the Principal-in-Charge for many municipal clients in central and southwest Florida, including the multiple continuing services contracts that we currently hold for a variety of municipalities and counties.

Gregory Corning, PE, will serve as the Project Manager. Greg provides technical input and engineering analysis to projects involving marine infrastructure and environmental design. Greg will be the main contact with the City's Project Manager for the preparation of the assigned task orders and ensuring all facet of the project are completed within budget and on schedule. Greg will satisfy the requirement for the licensed professional engineer, registered with the Florida State Board of Professional Engineers, having training and experience in the area of Environmental Assessments.

Benny Suzi, PE, will serve as the QA/QC manager. Benny is a group leader and senior project manager for international inter-disciplinary environmental projects in the mining, oil and gas, transportation, power plants and LNG terminal industries. He has conducted environmental and social impact studies and environmental and social due diligence, in accordance with the Equator Principles, IFC Performance Standards and applicable World Bank Group EHS Guidelines. Benny has completed compliance audits, air resources, environmental permitting, and transactional audits.

David Butcher, PE, LEED AP, will serve as the Roadway Design lead. David is a Senior Civil Project Manager with nearly 30 years of experience. He serves as a lead project engineer on many public and private projects dealing with all aspects of civil engineering including water resources, general civil, roadway design, potable water and sanitary sewer design, lift station designs, bridge scour analysis, bridge hydraulic reports, and permitting with multiple agencies throughout Florida. In addition, David excels at assisting our clients with public meetings and project education to both permitting agencies and constituents.

Timothy Kelly, PE, CPSWQ, CPESC, will serve as the Drainage/Stormwater Infrastructure Design lead. Tim has more than 37 years of experience spanning the realm of civil and stormwater engineering design representing city, municipal, private, county, and state clients. His expertise includes BMP design, inspection, maintenance management, and retrofit using innovative methods. As team lead, Tim is responsible for ensuring the quality assurance and quality control of all project deliverables is fully implemented and achieved.

Tirrell Day, PE, will serve as the Structures Design lead. Tirrell has 19 years of engineering experience for private, municipal, and federal clients, with activities that include design and analysis, construction oversight, serving as a point-of-contact for the clients and contractors, creating and/or reviewing record documents, providing professional opinions, providing structural assessment/ inspection services which include identifying structural deficiencies, recommending structural repairs, producing repair details, and establishing ROM cost estimates.

Shannon McMorrow, PWS, will serve as the Permitting lead. Shannon's focus is on the assessment of ecological integrity of natural and disturbed systems. She has over 18 years of experience in the evaluation of wetlands, threatened and endangered species surveys, and habitat assessments. Shannon is proficient at coordinating environmental permitting efforts, and has worked closely with local, state, and federal agencies to expedite permitting as necessary for critical projects.

Lee Walton, AICP, will serve as the Grant/Planning Services lead. Lee, a Certified Planner with a background in architectural design, has 25 years of local government planning-related experience. He serves as project manager, planner and designer for public and private sector clients. Key specialty areas include comprehensive planning and zoning, master planning, redevelopment planning, recreation planning, industrial planning, transportation planning, grant writing/administration, urban design, facility planning, architectural design and public involvement.

Jim Hoy, CPE, will serve as the Cost Estimating/Value Engineering lead. Jim's 18 years of field experience compliment his 20 years of technical estimating skills that provide a well-rounded pragmatic approach to cost engineering. Jim has a proven track record of accurate cost engineering for screening estimates, conceptual estimates, detailed estimates, engineer's estimates, bid estimates, control estimates and pre-construction services.

Brian Hathaway, PE, will serve as the Soil, Materials Testing, and Foundations lead. Brian is a licensed professional engineer with more than 20 years of professional experience with primary emphasis in geotechnical and civil engineering, subsurface exploration techniques, site characterization, QA/QC materials testing, and civil construction practices. Brian has managed and provided engineering services for various design and construction-related projects throughout Florida, Alabama, and Georgia. The services provided by Brian involve all aspects of the project lifecycle, including scope development, cost-estimating, subcontractor selection, project management, resource management, planning, execution, cost controls, scheduling, risk assessment, engineering design analyses, and technical reporting.

Dustin Atwater, GISP, will serve as the GIS/CAD lead. Dustin is a Geographic Information Systems Professional (GISP) working in the environmental discipline. His 20 years of experience include management, implementation, and development of GIS applications as well as several years of experience in environmental planning.

Mike Flood, AICP, ll serve as the Climate Adaption/ Resiliency lead. Mike has more than 33 years of consulting experience and is the National Resiliency Lead for WSP. In this role, he has led most of the national projects in WSP focused on determining the risks of extreme weather and climate change and the development of potential strategies for addressing those risks. The focus of Mike's recent work has been the development of methods, tools and strategies to help agencies make effective decisions in adaptation to climate change and extreme weather risks through development of prioritization processes.

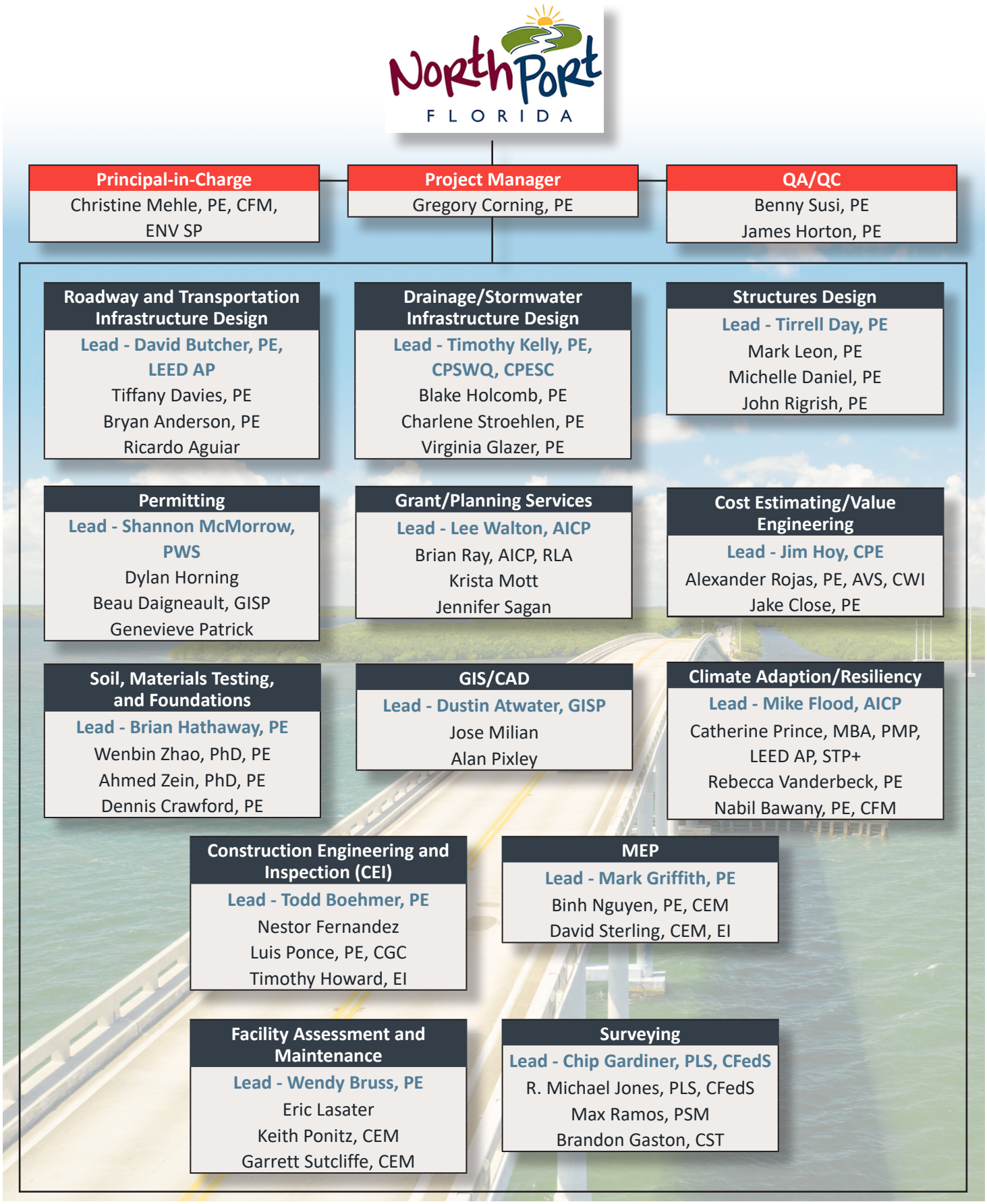
Todd Boehmer, PE, will serve as the Construction Engineering and Inspection (CEI) lead. Todd has more than three decades of construction experience on a wide range of assignments. His responsibilities have included design phase reviews; utility reviews and construction coordination; conducting regular project coordination meetings with the contractor, subcontractors, and utility companies; CEI and materials testing; contract administration; and contractor negotiations.

Mark Griffith, PE, will serve as the MEP lead. Mark has more than 30 years of electrical engineering experience in electrical facilities design, construction administration, and electrical distribution system analysis. He has been involved with all phases of electrical power distribution design for new and retrofit projects, from initial design concepts through construction and operation of electrical generation, distribution, and control systems/equipment. Mark has prepared engineering proposals and cost estimates for various projects for nuclear, industrial, commercial and municipal facilities and site throughout the US.

Wendy Bruss, PE, will serve as the Facility Assessment and Maintenance lead. Wendy is a structural engineer with 23 years of industry experience including new construction and building remediation, project management, and consulting on a variety of commercial, institutional, and residential structures for both public and private sector clients. She evaluates and designs repairs for existing structural systems of buildings and other structures showing signs of material degradation, overloading, excessive deflections, improper construction, inadequate design, and structures requiring change of occupancy or building code updates.

Charles "Chip" Gardiner, PLS, CFedS, will serve as the Surveying lead. Chip provides technical input, topographic and bathymetric survey, and GIS mapping analysis to projects involving marine infrastructure, navigational dredging, and environmental permitting. Chip will provide certified topographic and bathymetric surveys along with GIS maps for the aforementioned projects that will be used for inclusion in the permit applications. Chip will provide construction services such as staking and site layout and certified as-built surveys.

D. ORGANIZATION CHART OF PROPOSED TEAM Organization Chart is attached: ☒



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Gregory Corning, PE	Project Manager	14	13
15. FIRM NAME AND LOCATION (City and State)			
WSP (Miami Lakes, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Florida Atlantic University, Civil Engineering	FL - Professional Engineer, No. 79293		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Gregory Corning has training and experience in marine infrastructure design and planning. He has worked with various counties and state agencies on implementing marine infrastructure rehabilitation, design, and inspection, furthering the goal of improving the condition and functionality of the marine infrastructure. He is also the engineer of record for other coastal and marine engineering projects including navigational and ecological dredging projects, sediment beneficial reuse for saltmarsh restoration, and storm surge vulnerability analyses of public parks and roadways.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Water Taxi Docking Station Design, Manatee County, Florida	PROFESSIONAL SERVICES: 2024	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Greg Corning is the project manager responsible for the planning, design, permitting, and construction administration support for modifications associated with loading and unloading at three docks within Manatee County. The work included ADA modifications and safety design features to provide functionality for the water taxi operations.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Coquina South and Kingfish Boat Ramp Replacements, Bradenton, Florida	PROFESSIONAL SERVICES: 2019	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager for the redesign of the existing boat ramps with identical layout per request of the County. WSP examined the layout per ADA requirements and criteria as client specified, and code required loading (Florida Building Code). The design was for a timber deck and framing on timber piles. Pile size and spacing was optimized to accommodate longer slips for boat access. WSP also investigated options for a robust design for vessel impact per the County's request. The design package included drawings, cost estimate, construction bid forms, and performance specifications.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Dunedin Marina Dredging, Pinellas County, Florida	PROFESSIONAL SERVICES: 2020	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Technical lead, development and implementation of a multi-phase project to determine the feasibility, permit, plan, and dredge sediments from the city marina, boat ramp, and entrance channel. WSP is providing dredged material management area design, environmental permitting, and technical team coordination for dredging, dewatering, and disposing of sediments from the significant city facility. WSP provided review of technical submittals (shop drawings, cut sheets, etc.) provided by the contractor.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Christine (Crissy) Mehle, PE, CFM, ENV SP	Principal-In-Charge	23	9
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, San Diego State University, Civil Engineering	Professional Engineer, No. 68038 Certified Floodplain Manager, No. US-07-02810 Envision Sustainability Professional		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Crissy is water and infrastructure service line lead in our Tampa office. She has 23 years of experience in water resource engineering, including comprehensive watershed assessments and improvement planning with a focus on flood protection, habitat improvement, water quality improvements, and sustainability. As the Florida Water and Infrastructure Service Line Lead, she leads a team of 80+ water resource engineers and scientists.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SRWMD, FEMA Risk Map, Alachua, Baker, Bradford, Columbia, Dixie, Gilchrist, Hamilton, Lafayette, Levy, Madison, Suwannee, and Union Counties, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	QA/QC for a 2009 SRWMD indefinite delivery, indefinite quantity contract to support their partnership with FEMA. To date, WSP has deployed Risk MAP in the Lower Suwannee, Upper Suwannee, Santa Fe, Withlacoochee, and Waccasassa watersheds, and is currently engaged in new Risk MAP projects for the Santa Fe and Waccasassa watersheds, covering 12 of the 15 counties served by SRWMD.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Sarasota County, Model Update and Project Maintenance to the Lemon and Dona Bay Watershed, Sarasota, Florida	PROFESSIONAL SERVICES: 2023	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager responsible for team coordination and project quality. WSP was contracted by Sarasota County to update the Lemon Bay and Dona Bay watershed models and associated GIS databases. This scope of work includes a one-time update to the ICPR model and associated GIS data based on the best data currently available.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Escambia County, Carpenter Creek and Bayou Texar Watershed Management Plan, Escambia County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager responsible for team coordination and project quality. The project involves the development of a comprehensive watershed management plan for the Carpenter Creek and Bayou Texar watersheds in Pensacola, Florida. The management plan will provide a roadmap for identifying, addressing, and recommending actions for at least the following main objectives: water quantity and quality, fish and wildlife habitat, public access and recreation, and community resilience.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SFWMD, Haines City Watershed Management Plan Update, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager responsible for team coordination and project quality. WSP conducted watershed evaluation, model development and calibration, floodplain delineation, water quality assessments, level-of-service analysis, BMP recommendations and conceptual plan development, and public outreach.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Benny Susi, PE	QA/QC	26	18
15. FIRM NAME AND LOCATION (City and State)			
WSP (Gainesville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
ME, Civil Engineering, University of Florida	FL – Professional Engineer, No. 35042		

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Benny Susi is a Group Leader and Senior project manager for international inter-disciplinary environmental projects in the mining, oil and gas, transportation, power plants and LNG terminal industries. He has conducted environmental and social impact studies and environmental and social due diligence, in accordance with the Equator Principles, IFC Performance Standards and applicable World Bank Group EHS Guidelines. Benny has completed compliance audits, air resources, environmental permitting, and transactional audits.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Torex Gold Resources Ltd., Environmental Impact Assessment (ESIA), Guerrero State, Mexico**	N/A	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒☐ Check if project performed with current firm		
	Project Director for the Morelos Gold Mine in Mexico (Minera Media Luna S.A. (MML). Provided guidance to a multidisciplinary team consisting of engineers and scientists. Interacted with the Torex project manager on all aspects of the environmental and social studies to support the ESIA. Provided guidance, direction and assisted the MML and project managers in the successful planning and execution of the ESIA. Reviewed and guided the development of the Resettlement Action Plan (RAP) for the project. The Project consisted of three gold-enriched skarn deposits, a dry tailings area, mill and surface water capture and treatment systems, and supporting ancillary facilities.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Pershimco Resources, Social and Environmental Scoping Study, Panama**	N/A	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒☐ Check if project performed with current firm		
	Project Director for a Social and Environmental Scoping Study of the Cerro Quema Gold Mine Project, Province of Los Santos in accordance with the Equator Principles, IFC Performance Standards, and applicable World Bank Group EHS Guidelines.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Minera Isla Invierno, Environmental and Social Management Plan, Chile**	N/A	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒☐ Check if project performed with current firm		
	Environmental specialist and technical reviewer for developing an Environmental and Social Management System and their respective Environmental and Social Management Plans in accordance with the Equator Principles, IFC Performance Standards, and applicable World Bank Group EHS Guidelines for a Coal mine project in Isla Riesco, La Patagonia.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**Xstrata, Environmental and Social Baseline Impact Assessment, Dominican Republic**	N/A	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒☐ Check if project performed with current firm		
	Project Manager of Environmental and Social Baseline for Impact Assessment of the Loma Miranda ferrous-nickel laterite mine, rehabilitation of the smelters at the processing plant by conversion of existing vertical furnaces to coal-fired kilns and the conversion of an existing 200 MW fuel oil-fired power plant into a coal-fired power plant in the Dominican Republic.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
E.	**Coastal Power Company, Environmental Impact Analysis (EIA), Pacora, Panama**	N/A	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒☐ Check if project performed with current firm		
	Project Manager responsible for conducting an EIS for a 49-MW thermal electric power plant in accordance with Panamanian and World Bank Guidelines. Project involved air dispersion modelling to evaluate ambient air impacts and compliance with applicable standards for air, noise, and water quality.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
James A. (Jim) Horton, PE	QA/QC	51	49

15. FIRM NAME AND LOCATION (City and State)

WSP (Jacksonville, Florida)

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Civil Engineering, Purdue University	FL – Professional Engineer, No. 23315
BS, Civil Engineering, Purdue University	GA – Professional Engineer, No. 12385

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Jim has more than four decades of experience performing project management responsibilities for large projects. In total, his experience encompasses all aspects of engineering and transportation projects, with particular focus on geotechnical support for design, construction, and environmental investigations. He has supervised fi eld and laboratory investigations, drilling teams, and report preparation and has made recommendations for a variety of foundation alternatives, site preparation techniques, and construction methods. He has served as Chief Engineer for WSP and has provided technical leadership and problem solving for many projects throughout Florida and the southeastern United States.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Flatiron Construction – Lane Construction (Joint Venture), WSDOT I-405 Renton to Bellevue Design-Build**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Serving as a deputy design manager. Geotechnical for 13 separate geotechnical teams, including nine WSP teams in seven separate offices and four sub-consultant teams located in the Pacific Northwest. Project consists of design and construction of widened I-405 freeway, from Renton to Bellevue (14 miles), with the implementation of electronic toll lanes. Also includes 2 enhanced interchanges NE 44th street and 112th Ave SE, both including Express Toll Lane direct access ramps, and BRT transit stations at NE 44th street.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**WGI, Inc., SR 23 Shands Bridge Design Build., St. Johns and Clay Counties, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Providing quality assurance for geotechnical effort on this design build project in Northeast Florida. This 6.5-mile-long project is part of the First Coast Expressway and includes eight new bridges (seven small bridges and the replacement of the existing 1.75-mile-long Shands Bridge across the St. Johns River.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**AECOM/Dragados USA Design-Build Team, I-595 Geotechnical Testing and Inspection Services, Broward County, Florida**	2014	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Served as project manager. Provided geotechnical exploration, quality control, and construction materials inspection and testing services as a subcontractor to a design-build team. Provided geotechnical analyses related to bridges and MSE walls for this 10.5-mile long design and build project. The project included 65 new or expanded bridges and associated MSE walls. More than 70,000 linear feet of soil testing borings were drilled. A total of 171 individual reports were coordinated between five offices. At the peak of the design support, 18 full-time engineers were engaged on this team. Included in this contract was construction quality control support for the installation of over 2,100 driven piles and over 300 drilled shafts. Foundation certification reports in FDOT format were prepared for a various combination of these elements resulting in more than 400 separate reports submitted in a timely manner to facilitate the construction schedule.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**CL2 Partners (Joint Venture – Bechtel and Aecon Construction), Confederation Line Extension Project Light Rail Transit Design-Build (Pursuit Phase), Ottawa, Ontario, Canada,**	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Served as Project Manager for WSP's scope for geotechnical, environmental and highway design services for CL2 Partners design-build team (one of three short-listed teams) for this light rail project pursuit. Confederation Line Extension Project is an addition to Ottawa's light rail transit system. The project consists of 15 kilometers of new rail and eleven new stations.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
David Butcher, PE, LEED AP	Roadway and Transportation Infrastructure Design Lead	29	20
15. FIRM NAME AND LOCATION (City and State)			
WSP (Lakeland, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, University of South Florida, Civil Engineering	FL – Professional Engineer, No. 55431 LEED Accredited Professional		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
David is a Senior Civil Project Manager who serves as a lead project engineer on many large-scale and multi-disciplinary public and private projects dealing with all aspects of civil engineering, including water resources, stream restoration, dam rehabilitation, general civil, roadway design, recreational trail and park design, potable water and sanitary sewer design, lift station designs, bridge scour analysis, bridge hydraulic reports, and permitting with multiple agencies throughout Florida. David excels at assisting our clients with public meetings and project education to both permitting agencies and constituents.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Jacksonville, McCoys Creek Restoration Plan, Jacksonville, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Lead civil engineer responsible for design of stormwater components, recreational trails with our teaming partner SCAPE, and all civil works associated with the creek daylighting and passage through rail and major highway overpasses. The restoration is aimed at improving the waterway's health and function, habitat for wildlife, flooding, water quality, and aesthetics, while considering where recreational amenities and green and natural stormwater remedies can be incorporated.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Clermont, Engineering Services, Clermont, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior project manager responsible for leading team that provided ecological, environmental, geotechnical, survey, utility, roadway, and stormwater engineering services for various capital improvement projects located in the City of Clermont. Services included a full range of design, permitting, and construction support.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Plant City, Master Engineering Services, Plant City, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager responsible for leading team that delivers comprehensive engineering services to the City of Plant City since 2004. Services provided to date include roadway design, street scape projects, water main extensions, stormwater management system retrofit, street lighting design, canal stabilization, permitting, and construction management assistance.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Hillsborough County, Stormwater and Environmental Engineering Services, Hillsborough County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project engineer responsible for providing stormwater and public works engineering services for various capital improvement projects located throughout Hillsborough County. Projects are in various stages of completion from preliminary design and evaluation (PD&E) through design, permitting, and construction.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Tiffany Davies, PE	Roadway and Transportation Infrastructure Design	20	14
15. FIRM NAME AND LOCATION (City and State)			
WSP (Orlando, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, University of Florida, Civil Engineering	Professional Engineer, FL (68370)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Tiffany Davies is a senior engineer with 20 years of professional civil engineering experience. She has been the project manager on numerous civil engineering projects for municipalities, federal clients and private clients. She extensive experienced with completing site layout and designs, including parking lots, potable water and wastewater, park and recreational facilities, and stormwater structures and systems.			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Gainesville, Bellville Creek Stabilization and Cofrin Park Design, Gainesville, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Associate engineer responsible for the overall concept and proposal submittal, hydraulic and hydrologic model setup with background inputs, construction plan design, and overall client interaction. The restoration included bank stabilization, slope grading, and natural creek bed elevation restoration.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	FDEP, Division of Recreation and Parks, Terra Ceia Boat Ramp and Navigational Dredging, Tallahassee, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project engineer for this project included preparation of five alternative conceptual plans, for review, selection, and approval by FDEP Property Manager. The design included a boat ramp, a floating canoe launch, parking, a stormwater treatment system, channel marking, dredging of the channel within the Outstanding Florida Waters of the Preserve, park and trail amenities and a restroom facility with a self-contained vault.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Alachua County, Sweetwater Preserve Stormwater Improvements, Alachua County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Associate engineer responsible for QA/QC of the engineering design and review of the 30%, 60% and 90% design plans. Responsibilities also included review of and input on the generation of the hydrologic and hydraulic model. The project entails creating a trailhead for the public park at the Sweetwater Preserve including drive aisles, pervious parking areas, and ADA accessible accessways.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Alachua, Mill Creek Sink Water Quality Improvement Project, Alachua, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Associate engineer responsible for QA/QC review of the engineering layout and design, as well as modeling review. The project is located near the Mill Creek sink an environmentally sensitive area and is intended to manage and improve stormwater. The project included various Best Management Practices (BMPs) to direct and control runoff from adjacent parcels into the proposed system, and to design various treatment train type improvements, along with a construction wetland treatment system, to enhance water quality prior to discharge of the system.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Bryan Anderson, PE, ENV SP	Roadway and Transportation Infrastructure Design	23	1
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, University of Central Florida, Civil Engineering	Professional Engineer, FL (64617) Envision Sustainability Professional		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Bryan Anderson is a civil engineer with more than 23 years of experience providing a variety of civil, transportation and storm-water engineering, and design solutions focusing on delivering quality projects. This includes the design and management of projects including minor roadways, shared use paths, stormwater design, floodplain mitigation, potable water and sanitary sewer design, site civil design, and permitting. He has a strong understanding of the Florida Department of Transportation design methods, plan preparation, standards, and specifications of stormwater management for transportation projects. Bryan served as the project manager and engineer of record on numerous Florida Department of Transportation, county, and municipal roadway and stormwater projects.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Hillsborough County Plans Review Hillsborough County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Lead Drainage Reviewer. WSP is providing Hillsborough County, Florida with professional engineering services for the review of transportation engineering technical documents related to any analyses, studies, or projects that support the development of Hillsborough County infrastructure. Documents may include but are not limited to preliminary engineering reports, construction plans for modifications to existing facilities or new facilities, as well as, all supporting documentation for the development of these analyses, studies, or plans.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Stormwater Engineering Services Continuing Contract Tarpon Springs, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	As Project Manager, Bryan provided stormwater-related services to the City of Tarpon Springs which included capacity analysis of stormwater system components and stormwater treatment facilities, permitting assistance, technical review committee support for private site plan reviews, design of stormwater system modifications and upgrades, bidding and contract administration assistance, feasibility investigation, evaluation, and design during construction for stormwater projects. Bryan handled the development of a multi-year capital improvement program for stormwater projects and other related stormwater services, professional engineering services for repairs or response to emergency conditions, engineering certification of existing stormwater facilities regarding compliance with current regulations, operation and maintenance performance evaluation, and protocol development and recommendation.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Engineering Services for Drainage Improvements Polk County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	WSP is providing design engineering services for roadway reconstruction, construction of drainage improvements, and stormwater management for areas within Polk County.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Ricardo (Rick) Aguiar	Roadway and Transportation Infrastructure Design	39	2
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
AS, Palm Beach State College, Engineering	N/A		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Rick brings more than 39 years of engineering, planning, design, and permitting experience. He has acquired a comprehensive knowledge of various civil engineering disciplines and permitting requirements, strategies, and procedures necessary in the development of various commercial, residential, and environmental projects from conception to construction and occupancy. Rick has extensive experience in performing stormwater modeling and analyses to support site development projects, including hydrologic and hydraulic analyses as well as the design and permitting of stormwater collection, storage, and treatment systems. He has served as the lead stormwater designer on more than 50 projects for municipal and private clients.			

19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Polk County Roads and Drainage Division, South Lake Wales Drainage Improvements, Polk County, Florida**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior designer responsible for design and permitting related to the construction of new and upgraded drainage infrastructure that will alleviate chronic roadway and private property flooding occurring within the affected residential subdivision and adjacent US-27, all located south of Lake Wales, Florida.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Port Tampa Bay, Southbay Development Phase 2 – Private Access Drive, Hillsborough County, Florida**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior engineering designer responsible for the overall drainage design, permitting and oversight of plan development. Project includes the construction of 3,350-LF of private roadway and related infrastructure that includes water and wastewater facilities to serve a 115-acre industrial port property in Gibsonton, Florida.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**City of Tarpon Springs, Vulnerability Assessment and Action Plan, Pinellas County, Florida**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior designer responsible for watershed modeling related to conducting a vulnerability study for the City of Tarpon Springs. The analysis was needed to determine current and future flooding extents, depth and duration due to future climate change and sea level rise and identifying critical city infrastructure that will be affected by the anticipated coastal and riverine flooding.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**City of Tarpon Springs, Dodecanese Boulevard Tidal Flooding Improvements, Pinellas County, Florida**	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project senior designer responsible for stormwater improvements design near the intersections of Dodecanese Boulevard and Athens Street in Tarpon Springs historic Sponge Docks area. To prevent roadway and private property flooding attributed to tidal influences and undersized or non-existent drainage infrastructure, the drainage improvements included new and improved drainage conveyance, roadway reconstruction and a new stormwater pump station near the proposed outfall to the Anclote River. Tasks included detailed development design and permitting of the proposed drainage improvements.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Timothy (Tim) Kelly, PE, CPSWQ	Drainage/Stormwater Infrastructure Design Lead	38	4
15. FIRM NAME AND LOCATION (City and State)			
WSP (Orlando, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, University of Florida, Agricultural Engineering	Professional Engineer, FL (44721); Certified Professional in Stormwater Quality, FL (0338); FDEP Certified Storm Water Management Inspector, FL (104)		

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Timothy kelly has 30 years of experience spanning the realm of civil and stormwater engineering design. Throughout his career, he has assisted clients in implementing and achieving permit compliance in all aspects of their NPDES programs. His expertise includes BMP design, inspection, maintenance management, and retrofit using innovative methods.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**FDEP, BMAP Pollutant Load Reduction Project Verifications, Florida**	2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	As a Senior Project Engineer, assisted FDEP with reviewing and revising pollutant (nutrient) load reduction calculations for springshed/watershed restoration BMP projects within 13 waterbodies submitted by stakeholders for BMAP project load reduction credit within the BMAP boundaries. The projects reviewed included wastewater upgrades, septic tank upgrades or removals, erosion protection, and stormwater treatment and reuse projects.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**City of Orlando Public Works Department, Wilshire Drive Bridge to Culvert Conversion, Orlando, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior engineer responsible for civil site design plans and project management. WSP was selected to provide engineering and design services to convert an existing bridge structure into a culvert structure. WSP carefully selected the culvert size and spacing arrangement to ensure that hydraulic requirements were met but that the culvert spacing precluded the structure from being considered a bridge by CFR - NBIS standards.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Seminole County, NPDES Consultant, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior engineer/project task manager. Tim provided stormwater retrofit concepts to increase pollutant load reduction performance of the inspected stormwater facilities. For one of WSP's most recent assignments, served on project team to evaluate the use of soil amendments under retention BMPs to help the County meet nitrogen limits for the Wekiva River TMDL.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**City of Lakeland, Outfall BY070 Water Quality Retrofit, Polk County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	WSP is responsible for design and permitting of a pollution control device (2nd Generation Baffle Box) followed by a Biosorption Activated Media (BAM) Bed for advanced treatment of the stormwater coming through this currently untreated and high-maintenance priority MS4 outfall. WSP assisted the City of Lakeland in acquiring a FDEP Non-Point Source Grant for the project.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Blake Holcomb, PE	Drainage/Stormwater Infrastructure Design	16	14
15. FIRM NAME AND LOCATION (City and State)			
WSP (Jacksonville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Biosystems Engineering Environmental and Natural Resources, Clemson University	Professional Engineer: FL No. 72381, 2011 Qualified Stormwater Erosion and Sedimentation Control Inspector, Florida Department of Environmental Protection (FDEP) No. 23611, 2010		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM Licensed professional engineer in Florida with over 15 years of experience in consulting and engineering for infrastructure design and stormwater permitting. Project experience includes conducting field and site investigations for various engineering and environmental studies, stormwater and wastewater permitting, stormwater and civil design and environmental compliance/permitting.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Sugar Cane Growers Cooperative of Florida, Industrial Wastewater Permitting Support, Palm Beach County, Florida	PROFESSIONAL SERVICES: 2021	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm		
	Provided industrial wastewater permitting support for sugar cane and bagasse processing activities associated with facility land application system, including permit renewals, permit modifications, groundwater quality studies, groundwater and surface elevation and flow studies, water balances and compliance assistance.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Power & Light Company, Citrus Solar Energy Center Site, DeSoto County, Florida	PROFESSIONAL SERVICES: N/A	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm		
	Completed hydraulic/hydrologic calculations and ICPR modelling and developed permitting design drawings/details for inverter access roads and substation. Provided civil engineering design support for the solar energy center's roads and drainage features to meet state and local water quantity and water quality regulations. Tasks completed included coordination with local and state regulatory representatives, pre-development basin calculations, post-development basin calculations, treatment volume and drawdown calculations, site grading plan, stormwater routing/control features, construction SWPPP and BMP details.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Power & Light Company, Citrus Solar Energy Center Site, DeSoto County, Florida	PROFESSIONAL SERVICES: 2023	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm		
	Completed hydraulic/hydrologic calculations, ICPR modelling, FHA HY-8 culvert modelling and developed permitting design drawings/details for inverter access roads and substation. Provided civil engineering design support for the solar energy center's roads and drainage features to meet state and local water quantity and water quality regulations. Tasks completed included coordination with local and state regulatory representatives, flood stage exhibits, pre-development basin calculations, post-development basin calculations, treatment volume calculations, site grading plan, designing stormwater routing features, construction SWPPP and BMP details.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Charlene Stroehlen, PE	Drainage/Stormwater Infrastructure Design	43	17
15. FIRM NAME AND LOCATION (City and State)			
WSP (Gainesville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MBA, Florida Southern College, Business Administration BS, University of Pittsburgh, Civil Engineering	Professional Engineer, Florida No. 58774		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Charlene is a principal engineer with professional experience in stormwater treatment, pumping system, and wetland restoration design; environmental resource permitting; surface water and wetland water modeling; construction bid plans and specification preparation; and construction management.			

19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**USFWS, Ecosystem Assessment, Engineering Design, and Construction, Wetlands Restoration, Highlands County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager responsible for coordination of the engineering and science team and project deliverables. The goal of the projects was to restore the easements to an ecological and hydrologic condition which existed prior to agricultural manipulation. WSP developed the restoration design plan for each site in five phases and has provided construction management and construction oversight services during the implementation phase.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**SRWMD, Lower Suwannee National Wildlife Refuge Hydrologic Restoration, Dixie County and Levy County, Florida**	2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager responsible for managing the preparation of the 293,013-acre hydrologic model of the 54,712-acre Lower Suwannee National Wildlife Refuge. The project included online data collection, field reconnaissance, development of a GIS modeling database, development of existing conditions and proposed conditions hydrologic and hydraulic models, conceptual restoration designs, and opinions of probable cost for the proposed restoration alternative designs.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**SRWMD, Ichetucknee Springshed Water Quality Improvement, Lake City, Florida**	2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Charlene was project manager and technical reviewer for this project. WSP designed an infiltration treatment wetland to convert Lake City's wastewater effluent disposal spray fields into constructed treatment wetlands. The resulting 121-acre treatment wetland was designed to reduce nitrogen loading and provide beneficial recharge into the environmentally sensitive upper Floridan aquifer and the Ichetucknee Springs group.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**City of Alachua, Mill Creek Sink Water Quality Improvement Project, Alachua, Florida**	2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Charlene was project manager and technical reviewer for this project. The project included various Best Management Practices (BMPs) to direct and control runoff from adjacent parcels into the proposed system, and to design various treatment train type improvements, along with a construction wetland treatment system, to enhance water quality prior to discharge of the system.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Virginia Glazer, PE	Drainage/Stormwater Infrastructure Design	4	1
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Civil Engineering, North Carolina State University	Professional Engineer, Florida No. 97300		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Virginia is a licensed Civil Engineer with 4 years of experience in water resources engineering. Experience includes various water resources roles including watershed analysis, onsite and offsite drainage assessments, 1D/2D hydrologic and hydraulic modeling, erosion control design, and wetland and stream design.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Greene Perkins Wetland Restoration Plan, Site Development and Stormwater Pond Design, St. Lucie County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Designed CAD plans and grading for existing and proposed conditions for a wetland restoration site.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Rowena Mays Park, Site Development and Stormwater Pond Design, Plant City, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Modeled existing and proposed stormwater infrastructure for a park renovation site, using ICPR software. Calculated and designed stormwater ponds to meet water quality standards and capture attenuation differences between pre and post site conditions. Preformed a drainage study to ensure there was no rise in water surface elevation to meet County requirements, and analyzed required FDOT storm events to confirm that there was no increase in discharge from the proposed site improvements.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Tirrell Day, PE	Structures Design Lead	18	10
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, University of Tennessee, Civil and Environmental Engineering – Structural	Professional Engineer, Florida No. 82160		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Tirrell has 18 years of engineering experience and more than 8 years of professional engineering licensure to design buildings and other structures. The bulk of Tirrell's experience is in the federal and municipal sectors, providing design analysis and construction support for new design, expansions, retrofit, and repair projects which include office buildings, parking garages, federal buildings, and municipal structures.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	USFWS, Ecosystem Assessment, Engineering Design, and Construction, Wetlands Restoration, Highlands County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Structural engineer while WSP was contracted USFWS to restore the wetland function of two hydrologically altered project areas. The goal of the projects was to restore the easements to an ecological and hydrologic condition that existed before agricultural manipulation. One project was 2,166 acres and the second project, with multiple easements, totaled 34,122 acres. WSP developed the restoration design plan for each site in five phases and has provided construction management and construction oversight services during the implementation phase.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SRWMD, Ichetucknee Springshed Water Quality Improvement, Lake City, Florida	PROFESSIONAL SERVICES: 2017	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Structural engineer while WSP designed an infiltration treatment wetland to convert Lake City's wastewater effluent disposal spray fields into constructed treatment wetlands. The resulting 121-acre treatment wetland was designed to reduce nitrogen loading and provide beneficial recharge into the upper Floridan aquifer and the Ichetucknee Springs group.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	USDA/NRCS, Ecosystem Assessment and Engineering Design, NRCS Wetlands Reserve Program, Various Locations, Florida	PROFESSIONAL SERVICES: 2019	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Structural engineer for this project. The project sites were to be returned, to the greatest extent practicable, to ecological conditions that existed before the agricultural manipulation of each site. Existing conditions and proposed conditions hydrologic and hydraulic models were created to represent the site and proposed improvements, and to evaluate restoration benefits as well as offsite impacts to adjacent parcels.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SFWMD, Loxahatchee River Watershed Restoration Flow-Way 3, Martin County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Structural engineer for this project. This project aims to improve water flows to the Northwest Fork of the Loxahatchee River (NWFLR) and to restore the connectivity of wetlands and watersheds that form the headwaters of the Loxahatchee River. The project consists of multiple elements spread out over a 10 square mile area including 15 hydraulic control structures, berm and levee improvements, site grading, three pump stations and a 750-acre water storage impoundment. These elements have been organized into seven delivery packages.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Mark Leon, PE	Structures Design	37	36
15. FIRM NAME AND LOCATION (City and State)			
WSP (Pensacola, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Civil Engineering, University of South Alabama	Professional Engineer - Civil & Structural, AL No. 21836, FL No. 72832, WV No. 20725		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Mark performs structural engineering services on typical and complex structures and structural systems for federal, commercial, and industrial markets. Expert in the inspection and evaluation of various hydraulic structures, and unique structural components for code compliance and structural rehabilitation and repair. Expertise encompasses all project phases ranging from initial scope development, field data collection, analytical analysis, formal report preparation, repair design, construction document preparation, bid evaluation, contractor selection, construction monitoring, through project closeout. With over 30 years of structural engineering experience in dam/levee safety engineering, design, and construction, primarily with USACE, Mark's experience includes participating in risk-basked/risk-informed engineering on dams and levee systems, determining conditional probabilities of failure for static, hydrologic, and seismic failure mode. Mark provides key expertise to structural engineering design and inspection on hydraulic structural systems including dams, spillway structures, lock structures, miter gates, stop logs, sector gates, sluice gates, vertical lift gates, weir gates, culvert valves, and other hydraulic structural components.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Confederated Tribes of the Colville Reservation, Owhi Dam Design and Geotech Services, Nespelem, Washington	PROFESSIONAL SERVICES	CONSTRUCTION
		2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	This is a two-phase project and WSP completed the phase I in 2017. Phase II is anticipated for completion in 2022. Additional task orders were awarded to conduct an environmental assessment and preparing final design and construction observations.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Duke Energy Carolinas, LLC, EOC/HYDRO/Oxford Dam Eng. Ph.1, Conover, North Carolina	PROFESSIONAL SERVICES	CONSTRUCTION
		2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Oxford Hydro Station was constructed circa 1928. While many of the main components of the spillway have been repaired or rehabilitated over the years, most of the structural elements are original. WSP was chosen to perform a structural evaluation of the concrete piers, gantry girders and gate guides and provide a report with recommendations for repairs and rough order of magnitude (ROM) cost estimate for the repairs. The repairs are intended to extend the life of the dam structure by 40 years.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Manatee County, Lake Manatee Dam Safety Design and Analysis, Emergency Repair, Bradenton, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior Structural Engineer responsible for Phase I emergency repair and guidance services in resolving field complications that developed during jet grout seepage cutoff wall installation to mitigate undermining of the spillway and the associated stilling basin structure. Subsequent site work included annual structural inspections and assessment services of the flood control sector gates, pile founded training and approach walls, and structural bridge framing. Phase II services were initiated following studies concluding that undermining seepage continued through breaches in the jet grout cutoff wall installed as an emergency repair.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Michelle Daniel, PE	Structures and Bridge Design	25	11

15. FIRM NAME AND LOCATION (City and State)

WSP (Kennesaw, Georgia)

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Structural Engineering, Georgia Institute of Technology BS, Civil Engineering, University of the West Indies	Professional Engineer - Structural, Texas, No. 109810

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Michelle is an established, senior-level structural engineer with experience in design, management, construction coordination of diverse commercial, industrial, and rehabilitation projects. Major strengths include leadership of design teams to produce contract documents and resolve complicated design problems. Michelle functions as our Structural Group Lead and Lead Structural Engineer on many of our multi-disciplinary projects. She is a quality-oriented individual responsive to scope, budget, schedule and client satisfaction. Her experience, locally and internationally, includes design and assessment of low and mid-rise buildings, foundation structures, environmental structures, industrial structures and cell towers, consisting of reinforced concrete, structural steel and structural masonry for office buildings, wastewater treatment plants, pump stations, manufacturing plants, schools and cell towers. Her core competencies are Advanced Structural Analysis, Building Modeling, Wind Engineering, Seismic Engineering, Structural Investigation, Structural Steel Design, and Structural Concrete Design.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
DeKalb County, District 4 & 7 Community and Senior Center, DeKalb County, Georgia	2023	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm

WSP was contracted to provide design services, permitting, bidding assistance and construction administration services for the new 24,000-square-foot Center. The Center accommodates approximately 140 parking spaces, drives, a covered drop-off area with main entrance, a service entrance, landscaping, and a pedestrian plaza.

b.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
U.S. Department of Veterans Affairs (VA), Mountain Home National Cemetery Design Services, National Cemetery Administration, Mountain Home, Tennessee	2015	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm

Design Manager & Structural Engineer: Assessed and proposed required structural system for two single story and (2)-two store steel frame structures with exterior brick frame cladding; supervising structural team in the generating 3D finite element computer models for four buildings; preparing and coordinating structural details for production of bid and construction packages; writing and editing engineering specifications.

c.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
USACE, Training Support Facility, Fort Rucker Alabama	2018	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm

Principal Engineer & Engineer of Record: In support of Ft Rucker Army Aviation training activities, the base required demolition of two industrial warehouses and Fast-Track design of a new 2-story Training Support Facility (TSF) with a high bay to display historical military aircraft. The TSF required over 135,770 SF of useable space on a limited 68,040 SF footprint. Design required movement of artifacts between floors, aircraft suspended from roof structure in high bay, and 1st floor ceiling height to accommodate a 30' tilt-wing chopper. Ms. Daniel is the Structural Engineer or record on this project, responsible for structural engineering, design meetings, correspondence with the client, preparation of structural specifications, project budgets and project coordination.

d.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
STOA Architects / USACE Savannah District, Savannah Harbor Expansion Project Re-Oxygenation Design, STOA Architects, Savannah, Georgia	2021	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm

Provided structural design services. Multidisciplinary design plans and specifications for development of water re-oxygenation system as part of infrastructure component implemented for expansion and deepening of Savannah Harbor. Full-scale oxygen injection system consists of 12 land based Speece Cones at two injection locations.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
John Rigrish, PE	Structures Design	30	7
15. FIRM NAME AND LOCATION (City and State)			
WSP (Mobile, Alabama)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Civil Engineering, Auburn University	Professional Engineer, AL No. 25122 Professional Engineer, MS No. 28273		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM John has experience in new construction and building retrofit in municipal, commercial, institutional and industrial projects. He has served as structural engineer and project manager on many city-owned buildings and county K-12 school projects. These have included new construction, additions to existing buildings and general renovations. Many of the renovation projects have involved changes to roof systems and structural modifications to provide the new desired roofing type.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Long Range Discrimination Radar Panel, Clear, Alaska	PROFESSIONAL SERVICES	CONSTRUCTION
		2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Structural design engineer for the Missile Defense Agency's Long-Range Discrimination Radar panel. The radar system serves as a critical sensor with the Missile Defense Agency's layered defense strategy to protect the Unites States Homeland from ballistic missile attacks.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Spirit Lake Structural Barrier, Mount St. Helens, Washington	PROFESSIONAL SERVICES	CONSTRUCTION
		2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Structural engineer for a large steel barrier structure built at the base of Mount St. Helens to protect a United States Army Corps of Engineers outlet tunnel from thousands of large timbers that migrate seasonally across the surrounding lake. The project included designing and installing a system of 50'-long-by-40'-deep steel trusses wedged into an existing rock valley.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Citi Bank, Seismic Assessment Services, Multiple Sites	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	California structural engineer for assessment and seismic renovations for multiple existing Citibank buildings located on seismic fault lines throughout California. The scope of work including assessing the structural system of existing buildings located in high seismic areas and providing modifications for code compliance.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Lake Jackson View Boat Landing Improvement, Leon County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Structural engineer for design of an elevated wood-framed boardwalk and pier system on Lake Jackson. The boardwalk was provided to replace an existing boardwalk and provide additional amenities including boat launches and increased square footage.		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Defense Logistics Agency-Energy, Seismic Assessment, Okinawa, Japan	PROFESSIONAL SERVICES	CONSTRUCTION
		2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Structural design engineer for assessing multiple buildings located on seismic fault lines in Okinawa, Japan. The scope of work including assessing the structural system of existing buildings located in high seismic areas and providing modifications for code compliance.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Shannon McMorrow, PWS	Permitting Lead	18	15
15. FIRM NAME AND LOCATION (City and State)			
WSP (Gainesville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MS, University of Florida, Environmental Engineering Sciences; BS, University of Florida, Zoology	Professional Wetlands Scientist, Florida No. 3022		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
As a senior scientist, Shannon's focus is on the assessment of ecological integrity of natural and disturbed systems. She has experience in the evaluation of wetlands, threatened and endangered species surveys, and habitat assessments. Shannon is proficient at coordinating environmental permitting efforts, and has worked closely with local, state, and federal agencies to expedite permitting as necessary for critical projects.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	USACE, Assessing Wetlands and Submerged Aquatic Vegetation for Potential Salinity Impacts, St. Johns River, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Wetlands specialist performed wetland vegetation assessments. WSP provided planning and developed and executed a monitoring and data analysis program to identify potential adverse impacts to wetlands within the lower St. Johns River. Work and subsequent work included the selection of field sites for monitoring, development of detailed monitoring and data analysis plans for SAV and wetland communities, collection of field and laboratory data for seasonal monitoring, and data reduction and reporting.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	FDEP, Upper Myakka River Parks Restoration Engineering Services, Sarasota and Collier Counties, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Wetlands specialist that performed wetland vegetation assessments. WSP provided engineering services for the restoration of two water control structures that existed on the southern rim of the Upper Myakka Lake within the MRSP in Sarasota County, Florida. The structures were a dilapidated concrete weir constructed in 1941 and a bypass constructed in 1974.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Alachua, Mill Creek Sink Water Quality Improvement Project, Alachua, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project Scientist responsible for evaluation of historical ecological communities and visible changes based on hydrologic alteration and sea level rise. Advised on target ecological communities for hydrologic improvement. Assisted with preparation of permit applications. The project included online data collection, field reconnaissance, development of a GIS modeling database, development of existing conditions and proposed conditions hydrologic and hydraulic models, conceptual restoration designs, and opinions of probable cost for the proposed restoration alternative designs.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Dylan Horning, SCI, HA, FSESCI	Permitting	7	1
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Southern Illinois University, Ecology Graduate Certificate, University of South Florida, Global Sustainability	SCI Certified; HA Certified; FSESCI Certified		

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Dylan has 3 years of public sector experience working for the Florida Department of Environmental Protections Southwest District specializing in state water quality health projects. These included the ongoing statewide Status and Trend program, seagrass monitoring & restoration, sucralose tracking, and ESOCs (emergent substances of concern) throughout both marine and freshwater habitats of Florida. Now with WSP Dylan has 4 years of public sector experience in a wide variety of water quality improvement projects.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Ardurra, Little Manatee River Restoration Project, Manatee County, Florida**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	The Little Manatee restoration project was contracted by the county to restore a 2,000-acre corridor around the Little Manatee watershed back to presumably historic conditions. Several ditch blocks were proposed along with eight wetland creation areas connected to the main river system.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Ardurra, Varrea North Development, Hillsborough County, Florida**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	This was a 540-acre project area proposed for residential development just outside of Plant City FL. My role on this project was to lead all environmental permitting efforts; this included wetland impact permits, stream impacts, Southeastern Kestrel mitigation, Gopher tortoise relocation, and development of a Bald Eagle Management Plan.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**H.W. Lochner DuPont Bridge Replacement, Panama City, Florida**	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	This project was contracted by the Florida Department of Transportation to replace the old DuPont bridge in Panama City Florida. My role in the project was to analyze current aquatic habitat health and sea grass populations under the existing bridge in addition to mapping essential fish habitat.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**FDEP Seagrass Monitoring and Restoration, Tampa Bay, Florida**	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	This was an ongoing project which both analyzed the health of seagrass beds throughout Tampa Bay along with measured the water quality surrounding the seagrass bed. Trends of the seagrass growth patterns were surveyed and mapped in addition to basic water quality parameters tracked.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Beau Daigneault, GISP	Permitting	11	2
15. FIRM NAME AND LOCATION (City and State)			
WSP (Miami Lakes, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Wildlife Ecology, Texas State University	Geographic Information Systems Professional (GISP)		

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

Beau is an environmental scientist and GIS professional with 10 years of experience focused on environmental services. Prior to joining WSP, Beau worked at the Florida Department of Environmental Protection as an Environmental Specialist, focused on Environmental Resource Permit Processing for Monroe County, and using skills such as report writing, environmental permitting, environmental compliance, wetland delineation, and providing benthic surveys. Beau has also worked at the National Audubon Society as a Research Biologist for the Everglades Science Center, where he conducted wading bird monitoring in Florida Bay and the Everglades studying the health of the ecosystems.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**FWC Professional Services Contract, Statewide, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	WSP has provided professional engineering consulting services to FWC continuously since 2010. Since that time, WSP has conducted relevant tasks under numerous projects authorized by FWC that include field investigations and data gathering, hydrological assessments, habitat mapping, restoration design, construction specifications, estimates of probable cost, permitting, and monitoring.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Miami-Dade DPTW, Card Sound Road Restoration, Miami, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	As Project Coordinator for this project, Beau wrote the contract proposal and budget, and is providing benthic survey, vegetation survey, wetland delineation, permitting, wrote the mitigation proposal and reports, and provided GIS services.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Monroe County, Engineering Design and Permitting for Stillwright Point Road Elevation and Stormwater Design and Permitting, Monroe County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	As Environmental Scientist for this project, Beau is providing vegetation survey, wetland delineation and permitting, writing the mitigation proposal and reports, and providing GIS services.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**Harry Harris Park Improvements, Monroe County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	As Environmental Scientist for this project, Beau is providing vegetation survey, benthic survey, wetland delineation and permitting, writing reports, and providing GIS services.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
e.	**Monroe County and Village of Islamorada, Canal 315 Air Curtain & Restoration, Monroe County, FL and Village of Islamorada, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Environmental Scientist/Project Coordinator providing vegetation survey, benthic survey, wetland delineation, FDEP compliance case resolution, permitting, reports, and GIS services.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Genevieve Patrick	Permitting	6	2
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MS, Fisheries and Aquatic Sciences, University of Florida BS, Aquatic and Marine Biology, Stetson University	N/A		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Genevieve has more than six years of marine biology and fisheries experience with a focus in fish health. Through her many years of working in aquaculture and current water quality projects, she has a strong background in water quality monitoring and maintenance. More recently she has a year of ecological experience in wetland delineation, mitigation and restoration. She has experience in using methods of wetland delineation, including 62.340, FAC and wetland mitigation evaluation using UMAM. Genevieve is proficient in research project planning, data collection, GPS/GIS mapping, proposal writing, literature reviews and technical write-ups. She has worked on a variety of projects for industries such as municipalities and mining.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Naples, City of Naples Streets and Stormwater Department, Stormwater Monitoring Program, Naples, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	The project involves repairing damage to the manmade coastal breakwater structure that was previously provided protection from the storm surge and control the inflow of noxious floating seaweed into waterways. Bathymetric and topographic surveys were conducted for the affected canal area and surrounding structures within the project boundary. Surface water sampling at the City of Naples stormwater lakes and pump stations is conducted monthly and an annual report including data analysis and interpretation is provided to the City Council.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SFWMD, St. Lucie Tributary, C139B, C51 Water Quality Monitoring Program, City, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	The project involves collecting surface water quality samples and field data to characterize nutrient loads discharging into the local waterways, including the St. Lucie Estuary from its tributaries, as well as canals flowing into C139B and C51. Samples are collected on a biweekly basis and follow the FDEP field collection SOPs.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Dunedin, City of Dunedin Stormwater Program, Dunedin, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	This project involves monthly water quality and sediment sampling for the City of Dunedin as part of Water Quality and BMP Sediment Monitoring and Analysis Services. Surface water samples are collected from 16 sites throughout Spring Branch/ Stevenson Creek, Curlew Creek and Cedar Creek. An annual report including data analysis and interpretation is provided to the city.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	FWC, Warm Mineral Springs Construction Services, City, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	The project involves dredging of the spring run to provide better manatee access to and increase the volume of vital warm-water habitat. Verification that the contractor is performing work in accordance with the construction documents and a report with the project status and pertinent photos to the project conditions, site safety and stormwater erosion and sediment control are conducted.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Lee Walton	Grant/Planning Services Lead	26	11

15. FIRM NAME AND LOCATION (City and State)

WSP (Atlanta, Georgia)

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MCP, Master of City Planning, Georgia Institute of Technology, Specialization in Urban Design BS, Architecture, Georgia Institute of Technology	American Institute of Certified Planners, No. 16080

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Lee, a Certified Planner with a background in architectural design, has 25 years of local government planning-related experience. He manages the planning group within WSP's Atlanta office and is responsible for strategic planning, marketing, performance reporting and interdisciplinary coordination. He serves as project manager, planner and designer for public and private sector clients. Key specialty areas include comprehensive planning and zoning, master planning, redevelopment planning, recreation planning, industrial planning, transportation planning, grant writing/administration, urban design, facility planning, architectural design and public involvement. In conjunction with dozens of projects in recent years, Lee has planned, organized and facilitated hundreds of public and stakeholder involvement efforts, including charrettes, open house presentations, visual preference surveying, focus group meetings and stakeholder interviews.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**City of Doraville, On-Call Planning Services, Doraville, Georgia**	N/A	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager for this project which required the provision of professional planning assistance to address pressing issues, to fill the gap during the hiring process of a planning director, and to provide general planning expertise in response to daily needs. Responsibilities also included assistance with the planning director selection process. Cost: $99,999.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Dawson County, On-Call Planning Services, Dawson County, Georgia**	N/A	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager for the completion of multiple projects on a task assignment basis, including a major comprehensive plan update, the Georgia 400 Corridor Study, on-call planning services (zoning and building plan review) and creation of mixed-use zoning districts. Cost: $99,999.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Barrow County, Barrow County Comprehensive Plan and Unified Development Code Update, Winder, Georgia**	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager managed a team to complete a comprehensive plan update in accordance with the amended (2014) State Minimum Planning Standards. Following the adoption of the Comprehensive Plan update, the team continued support to Barrow County by identifying needed updates and revisions to the Unified Development Code and completing those updates, including the associated public involvement process. Cost: $99,999.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**Gordon County, Unified Land Development Code, Gordon County, Georgia**	N/A	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager for the preparation of a Unified Land Development Code (ULDC) to update zoning and development regulations and implement recommendations from the comprehensive plan, which was also prepared by WSP. Cost: $99,999.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Brian Ray, AICP, RLA	Grant/Planning Services	29	14
15. FIRM NAME AND LOCATION (City and State)			
WSP (Atlanta, Georgia)			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
Master of Landscape Architecture, University of Georgia Bachelor of Landscape Architecture, University of Arkansas		American Institute of Certified Planners (AICP), U.S. 31448, Registered Landscape Architect (RLA), GA No. LA001581, VA No. 1017	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM Brian has over 25 years of experience with DoD and other government clients; broad experience including Federal and military planning, community planning, land development, site engineering, and landscape design. Military planning experience includes the preparation of Area Development Plans, Installation Development Plans, DoD Form 1391s, Basic Facility Requirements, and Economic Modeling. Highly skilled in resolving site development issues and constraints for military, residential, commercial, and institutional projects. Well-versed in master planning and conceptual engineering facets including aviation facilities site planning, site grading, parking lot layout, storm water management, utilities, and traffic. Extensive experience in the federal government project approval process (MILCON, etc.), anti-terrorism/force protection (AT/FP) requirements, municipal and county zoning, and the interpretation of ordinances.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	U.S. Coast Guard (USCG), US Coast Guard Hangar 14 Renovation DD1391, Joint Base Andrews, Maryland	PROFESSIONAL SERVICES: 2020	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm		
	Senior Planner responsible for the preparation of conceptual plans for extensive renovation to an existing hangar for mission beddown of the Rotary Air Intercept Wing of the United States Coast Guard. The hangar is intended to support the wing as a stand-alone Air Station including ten MH-85 helicopters and 209 personnel. The project included an updated detailed Basic Facilities Requirements (BFR) document, conceptual architectural plans and renderings, Basis of Design (BoD), cost estimate, ECONPACK economic analysis, and updated DoD DD1391 document (NAVFAC format).		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	U.S. Air Force Reserve Command (AFRC), FY 2018-2019 US Air Force Reserve Command (AFRC) Multiple Installation District Plans, multiple Continental U.S. (CONUS) locations	PROFESSIONAL SERVICES: 2020	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm		
	Master Planner/Landscape Architect responsible for the preparation of Area Development Plans (ADPs) including the Airfield and Training Districts at Grissom ARB, the Joint Use and Mission Support Districts at Dobbins ARB, the Flightline District at MARB, the Community District at Niagara Falls ARS, the 433rd Air Wing Flightline at Lackland AFB/JBSA, and the 916th ARW Flightline at Seymour Johnson AFB. Led site visits to identify existing conditions and base requirements, long-term viability and support needs, and resiliency. Coordinated with stakeholders and supported design charrettes to develop alternate planning solutions. Developed supporting documentation and the presentation to installation leadership at on-board review meetings that resulted in determination of preferred alternatives.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	AFRC, FY 2017-2018 AFRC Multiple Installation District Plans (multiple CONUS locations)	PROFESSIONAL SERVICES: 2019	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm		
	Master Planner/Landscape Architect responsible for the preparation of five ADPs including Homestead ARB Munitions District and Airfield District, Grissom ARB Flightline District and Mission Support District, and Dobbins ARB Training District. Led the site visits to identify existing conditions and base requirements, long-term viability and support needs, resiliency. Facilitated the design charrettes to develop alternate planning solutions. Developed supporting documentation and presentations to and leadership at on-board review meetings at each installation to determine Wing leadership's preferred alternatives.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Krista Mott	Grant/Planning Services	25	20
15. FIRM NAME AND LOCATION (City and State)			
WSP (Warner Robins, Georgia)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Information Technology, Macon State College	CompTIA Security+ Certified Professional		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Krista is experienced in creating and administering web sites and web-based applications, and in providing IT, CADD and GIS support to the Robins Air Force Base community. She consistently exceeds standards of excellence in web design, graphics design, multi-media presentations, and GIS support. Krista has a strong working knowledge of the complete suite of Adobe products, Visual Studio.NET, ASP.NET, ESRI, ArcGIS, ArcSDE, AutoCAD Software, SDSFIE standards and Microsoft Office suites in accordance with Air Force guidelines.			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	AFRC FOCUS III 2018, U.S. Air Force (USAF), Joint Base MDL, New Jersey	PROFESSIONAL SERVICES	CONSTRUCTION
		2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Works with team of architects and community planners to develop maps (real and conceptual) for the Area Development Plans, Installation Development Plans, and Encroachment Plans for Air Force Reserve Command (AFRC). Imports and converts AutoCAD data in an ArcGIS format that is web viewer-ready. Coordinates and maintains GIS project data and related files among multiple AFRC installations. The Air Force Reserve Command (AFRC) needed to evaluate its facility capital assets on a five-year cycle to determine proper planning and management of its physical resources. WSP was retained to perform a Facilities Operations Capability and Utilization Survey (FOCUS) at multiple locations.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	U.S. Army Corps of Engineers (USACE), AFRC Facilities Operations Capability and Utilization Surveys III 2015-2016, Robins AFB, Georgia	PROFESSIONAL SERVICES	CONSTRUCTION
		2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Supported GIS, creating Mapbooks and assisting with GIS-related tasks. Air Force Reserve Command HQ (AFRC) contracted WSP to perform Facilities Operations Capability and Utilization Survey (FOCUS) assessments at NAS JRB Fort Worth, Texas; Wright Patterson AFB, Ohio; Patrick AFB, Florida; Nellis AFB/Creech AFB, Nevada; and Dover AFB, Delaware. FOCUS Technical Specialist teams were responsible for Facility Utilization Survey (FUS) to verify AutoCAD floor plans and collect facility occupancy data.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	CEMS Engineering & Architecture, Inc., AFRC Master Planning, Robins AFB, Georgia	PROFESSIONAL SERVICES	CONSTRUCTION
		2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Served as GIS specialist. Performed GIS support including data management and mapping, as well as some document formatting and graphics support.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	U.S. General Services Administration (GSA), EMS & GIS PROGRAMS - 2011, Robins (AFB), Georgia	PROFESSIONAL SERVICES	CONSTRUCTION
		2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Served as GIS specialist. Performed GIS support including data management and mapping, as well as some document formatting and graphics support. WSP designed and developed a web-based GIS Dashboard for monitoring facility condition and space utilization information for the Air Force Reserve Command, which included development of the GIS map interface using ESRI's JavaScript API, in conjunction with ASP.Net and SQL Server database components. The application links spatial data from ArcGIS Server with tabular data imported from both the AFRC FOCUS database and Builder systems to create a dashboard interface that provides users with at-a-glance summaries of various building condition and space utilization information, as well as the capability to generate in-depth reports.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Jennifer Sagan	Grant/Planning Services	26	17
15. FIRM NAME AND LOCATION (City and State)			
WSP (Gainesville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MS, Microbiology, Georgia State University BS, Zoology, University of Florida	FDEP Stormwater Erosion and Sedimentation Control Inspector, No. 25007		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM Jennifer has two decades of experience conducting monitoring and providing technical input on water management issues for water quality, water quantity, and aquatic habitat restoration as related to the establishment of water withdrawal impacts, including minimum flows and levels (MFLs) and total maximum daily loads (TMDLs). She has comprehensive knowledge of freshwater and estuarine riverine systems and has produced a decade of analyses related to submerged aquatic vegetation (SAV) status and stressors, identifying water quality and biotic factors that shape these systems. She has experience employing sampling and laboratory processing methodology for the quantification and qualification of SAV, epiphytes and macroalgae, macroinvertebrates, sediments, and toxicological samples; and has developed sampling methods and monitoring plans for water quality and biological monitoring.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	St. Johns River Water Management District, Lake Jesup Nutrient Reduction Evaluation, Sanford, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	In addition to project management, Jennifer performs zooplankton/phytoplankton sampling for the project, data compilation and quality assurance, and toxicological evaluations. WSP deployed eight experimental mesocosms in Lake Jesup to study the efficacy of three phosphorus-binding products that could be applied within the lake to reduce internal nutrient cycling. In-situ water chemistry parameters were collected before the application of the products and every two weeks thereafter for a period of six months. Water samples were also collected. In addition to project management, Jennifer performs zooplankton/phytoplankton sampling for the project, data compilation and quality assurance, and toxicological evaluations.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Manatee County, Environmental Site Assessment (ESA) and Geotechnical Investigations, Manatee County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Manatee County contracted with WSP to conduct due diligence related to constructing a stormwater reservoir at a parcel recently purchased by the County. Services included conducting a Phase I ESA, a geophysical survey, test pit excavations, groundwater table monitoring, and laboratory testing to determine the allowable excavation depth and the suitability of the excavated material as a borrow source. We also obtained composite soil samples to conduct an initial priority pollutant screen of potential contaminants. Phase II services will include design recommendations and will evaluate the physical characteristics of the soils using additional in-situ data collected from Standard Penetration Test (SPT) borings and laboratory index testing. The findings will be presented to the Client in a letter report, along with recommendations for design and/or further analysis.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	United States Fish and Wildlife Service (USFWS), Shoreline Restoration and Habitat Creation for the Red Knot, Levy County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	As, project manager, Jennifer authored the successful grant proposal awarded to the Fenimore Homeowners Association (HOA) by the USFWS for federal funds. The project will restore eroded coastline along the HOA property while creating habitat for the USFWS focal species, the Red Knot. The project design will calculate the fill needed to re-establish historical footprints and establish elevations for dune and marsh vegetation. Vegetation (high and low elevation), and potentially mangrove plantings, will provide nesting and foraging habitat for the Red Knot, a threatened shorebird species and will enhance stabilization of the beach and marsh habitat.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Jim Hoy, CPE	Cost Estimating/Value Engineering Lead	41	17
15. FIRM NAME AND LOCATION (City and State)			
WSP (Portland, Maine)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BAF, Finance and Advisory, Southern New Hampshire University	Certified Professional Estimator, US and Guam No. 1.4-799-0711		

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Jim has spent his career working with general contractors executing pre-construction services, construction management and hard bid cost estimates for projects ranging from $1M - $1B. Jim serviced industrial, healthcare, institutional, hospitality, commercial, and retail sectors. Jim's 18 years of field experience compliment his 20 years of technical estimating skills that provide a well-rounded pragmatic approach to cost engineering. Jim has a proven track record of accurate cost engineering for screening estimates, conceptual estimates, detailed estimates, engineer's estimates, bid estimates, control estimates and pre-construction services. Jim has completed assignments in the United States, Canada, and East Asia.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Confidential Client, Planning Charette, Los Angeles, California**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	WSP/KMEA Joint Venture is the designer for the Space Force 100,000 square feet 4th floor renovation for secured areas for secret and top-secret IT functional space. The design supports the 1391 development which will be released as a design/build tender offer. The 400,000 square facility required seismic upgrades to support SCIF development that will accompany the Long-Range Discriminating Radar component of the Space Fence defense system. The project estimate was reviewed by DOD Tri-Services which issued a 100% credibility confidence rating.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Confidential Client, Planning Charette, Inid, Oklahoma**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	WSP/KMEA Joint Venture is the designer for renovation of a simulator facility. The 100,000 square 3 story facility is an occupied phased renovation with major reworking of all MEP systems, window replacement, reroofing, and swing space. The 30% design supports the 1391 development which will be released to a design firm to finish the design to construction documents.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Black Butte Copper, Black Butte Copper De-Pyritization Desktop Technical Review – Opportunities and Risks for Removing Pyrite from BBC, Tailings, Montana**	2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	The objectives of this desktop technical review include producing a summary report to identify: the benefits, opportunities, risks, and threats of utilizing a de-pyritization process at the Project as a means of limiting potentially acid generating pyrite from the tailings going into the Cemented Tailings Facility, the additional costs and scheduling associated with implementing a secondary pyrite concentrate flotation stream in the processing facility, the potential uses and marketability, or lack thereof, for a pyrite concentrate in Montana or surrounding areas.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Alexander Rojas, PE, AVS, CWI	Cost Estimating/Value Engineering	29	16
15. FIRM NAME AND LOCATION (City and State)			
WSP (West Palm Beach, Florida)			

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Construction Management, Florida International University	Professional Engineer, Florida No. 75704
BS, Mechanical Engineering, Central University of Las Villas	Professional Engineer, New Hampshire No. 13854
	Certified Welding Inspector, Florida No. 08061141
	Associate Value Specialist, SAVE, No. 201511029
	TIN: R220000730010

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Alex is a Project Manager/Group Supervisor with more than 25 years of experience. Alex has managed and provided project coordination and engineering services for various geotechnical and CMT engineering-related projects in Florida. These projects have ranged from residential structures and commercial developments to state roadways, bridges, office buildings, parking garages, and government facilities. Services provided by Alex have involved all aspects of project proposal, price estimating, and project management, including planning and execution of materials testing contracts, roadway construction projects, geotechnical field explorations, soil/rock sample classification, and laboratory testing.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**City of Fort Lauderdale, Fiveash Water Treatment Plant Filters Rehabilitation, Broward County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	CEI Project Administrator for the complete and partial rehabilitation of 13 filters. This project includes procurement, removal disposal, construction, testing and placing into service the equipment and materials shown on the drawings and specifications. Responsible for CEI project administration and inspections.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**City of Fort Lauderdale, Croissant Park Water Main Infrastructure Improvements, Broward County, Florida**	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	CEI Project Administrator responsible for CEI project administration and inspections of installed mains and pressure testing of pipe welds and fittings, fire hydrants, water services, and paving/restoration. The project consists of using trenchless technologies to upgrade existing water infrastructure. More than 8,000 linear feet of HDPE was installed by pipe bursting, and more than 6,000 liner feet was installed with horizontal directional drilling.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**City of Fort Lauderdale, East Las Olas 12-inch Force Main Replacement, SE 17th Avenue to Lido Drive Pump Station, Fort Lauderdale, Florida**	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	CEI Project Administrator responsible for CEI project administration and inspections of installed mains. This project includes the installation of approximately 2,200 linear feet of 8-inch, 12-inch, 16-inch, and 18-inch, diameter force mains and associated wastewater infrastructure. The force main will be constructed within the City right-of-way (ROW) and FDOT ROW limits.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**Miami-Dade Expressway Authority, MDX Materials Engineering and Testing Services for SR 836 Operational, Capacity, and Interchange Improvements, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	MAT Lab Engineer/Project Manager responsible for verification materials testing services. This project consists of increasing the capacity of SR 836 in the eastbound direction from west of NW 57th Avenue to east of NW 27th Avenue and in the westbound direction from west of NW 17th Avenue to east of NW 57th Avenue.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Thomas "Jake" Close, EI	Cost Estimating/Value Engineering	4	4
15. FIRM NAME AND LOCATION (City and State)			
WSP (Lakeland, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, University of Florida, Agricultural and Biological Engineering	Engineering Intern, EI, Florida No. 1100023410		

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Jake is a technical professional working as part of the civil engineering group. Jake combines his knowledge of engineering and instrumentation to facilitate projects in stormwater management. Jake's expertise includes stormwater facility inspections, outfall inspections, National Pollutant Discharge Elimination System (NPDES) database management, instrumentation and monitoring, AutoCAD, and ArcGIS.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Manatee County, Water Taxi Dock Modifications, Bradenton, Florida**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Assistant consultant prepared CAD plans and provided permit application support. This project proposed modifications to existing dock to provide ADA compliant access to a water taxi. Cost: $24,000.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Lake County, Pasture Reserve Habitat Restoration, Tavares, Florida**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Assistant consultant prepared cost estimates and bid specification support. Project consisted of construction of low water crossings and improved access roads areas within the reserve. Cost: $240,000.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Monroe County, Breakwater Restoration, Ley Largo, Florida**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Technical professional drafted plans for Rock Harbor and Tavernier breakwater restoration, physical weed barrier, and air curtain. Provided cost estimates, reviewed RFPs, and compiled environmental assessments. Cost: $143,000		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**South Florida Water Management District, Streamgauging Support, South Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Assistant consultant performed streamgauging using Acoustic Doppler Current Profiler (ADCP). Processing data with Mathematica scripts and reporting findings for ratings analysis of various control structures throughout the district. Cost: $50,000.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Brian Hathaway, PE	Soil, Materials Testing, and Foundations Lead	23	23
15. FIRM NAME AND LOCATION (City and State)			
WSP (West Palm Beach, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
ME, University of Florida, Civil Engineering BS, Florida State University, Civil Engineering	Professional Engineer, PE, Florida No. 60724		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Brian is a licensed professional engineer with more than 20 years of professional experience with primary emphasis in geotechnical and civil engineering, subsurface exploration techniques, site characterization, QA/QC materials testing, and civil construction practices. Brian has managed and provided engineering services for various design and construction-related projects throughout Florida, Alabama, and Georgia. trols, scheduling, risk assessment, contract reviews, engineering design analyses, and technical reporting.			

19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**USFWS, Ecosystem Assessment, Engineering Design, and Construction, Wetlands Restoration, Highlands County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Brian is responsible for geotechnical data collection, analysis and design of embankments. WSP was contracted USFWS to restore the wetland function of two hydrologically altered project areas. The goal of the projects was to restore the easements to an ecological and hydrologic condition which existed prior to agricultural manipulation. One project was 2,166 acres and the second project, with multiple easements, totals 34,122 acres. WSP developed the restoration design plan for each site in five phases and has provided construction management and construction oversight services during the implementation phase.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**SFWMD, North Shore Pump Stations (S-129/S-131 and S-133/S-135) Trash Rake Upgrades and Site Improvements Projects, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager/senior geotechnical engineer responsible for cost proposal, subcontractor selection, project management, geotechnical engineering, and serving as the technical lead for contractor QA inspections and materials testing services during construction.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Hazen & Sawyer, Grove Land Reservoir and Stormwater Treatment Area, Phase II, Okeechobee and Indian River Counties, Florida**	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project engineer for Phase II of this project. The proposed 5,000-acre reservoir is expected to store 15 feet of water, providing approximately 75,000 acre-feet of above-ground storage on the 5,683-acre tract. Water from the reservoir would flow to the 2,000-acre STA to the north. For Phase II, WSP has provided engineering and environmental services, including initial geotechnical site investigation, Phase II environmental site assessment, dam hazard classification determination, and 30% design documentation.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**USDA/NRCS, Ecosystem Assessment and Engineering Design, NRCS Wetlands Reserve Program, Various Locations, Florida**	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior geotechnical engineer responsible for geotechnical investigation and design services. Project sites were to be returned, to the greatest extent practicable, to ecological conditions which existed prior to agricultural manipulation of each site. Existing conditions and proposed conditions hydrologic and hydraulic models were created to represent the site and proposed improvements, and to evaluate restoration benefit as well as offsite impacts to adjacent parcels.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Wenbin Zhao, PHD, PE	Soil, Materials Testing, and Foundations	38	38
15. FIRM NAME AND LOCATION (City and State)			
WSP (West Palm Beach, Florida)			

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
PhD, Civil Engineering, Clemson University MS, Civil Engineering, Clemson University BS, Suzhou Institute of Environment Protection and Urban Construction	Professional Engineer, Florida No. 78558

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Wenbin has about 17 years of experience in construction services, geotechnical engineering design and project management, and asphalt concrete material engineering in the civil engineering industry. In the past 9 years, his practice focused on geotechnical engineering and related project management, and he has successfully delivered numerous projects consisting of transportation, water resources, residential, commercial, and industrial projects. His experience includes geotechnical project management, geotechnical exploration planning, soil investigation, foundation designs and construction, piling, geotechnical engineering (e.g., bearing capacity estimate, settlement analysis, slope stability analysis, seepage analysis, site preparation recommendation, and pavement design and recommendation), foundation engineering, and ground improvement.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**EAC Consulting, Inc., Immokalee Water Distribution System, Seminole Tribe of Florida, Immokalee, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Wenbin provided geotechnical engineering design and project management for this project. Under Wenbin's coordination and involvement, the geotechnical aspect of the project was completed at an early stage of the design phase, helping the client address the issues related geotechnical discipline in a timely manner. This project consisted of construction of a new Water Distribution System for the City of Immokalee in Florida. Open cut trenches were considered for the open area along the proposed water main. To avoid disturbance of the existing wetland areas and demolishing and replacing some existing appurtenant structures, directional drilling method was proposed for the water main construction at some areas.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**EAC Consulting, Inc., South Florida Water Management District (SFWMD), Pump Stations G-310 and G-335 Trash Rake Replacement, Palm Beach County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Wenbin provided geotechnical engineering design and project management for this project. Under Wenbin's coordination and involvement, the geotechnical aspect of the project was completed at an early stage of the design phase, helping the client address the issues related geotechnical discipline in a timely manner. This project consisted of replacement the existing trash rake systems at Pump Stations G-310 and G-335. The project also includes a new replacement access bridge at G-310.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**EAC Consulting, Inc., Pump Stations S-319 and S-362 Generator Room Relocation, South Florida Water Management District (SFWMD), Palm Beach County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Wenbin provided geotechnical engineering design and project management for this project. Under Wenbin's coordination and involvement, the geotechnical aspect of the project was completed at an early stage of the design phase, helping the client address the issues related geotechnical discipline in a timely manner. This project consisted of replacement the existing generator rooms and relocating to a new location at Pump Stations S-319 and S-362.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Ahmed Zein, PE	Soil, Materials Testing, and Foundations	20	4
15. FIRM NAME AND LOCATION (City and State)			
WSP (Altamonte Springs, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
PhD, University of South Carolina, Civil Engineering BS, Helwan University Cairo, Civil Engineering	Professional Engineer, PE, Florida No. 92223		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Ahmed is a licensed Professional Engineer with 20 years of professional experience with primary emphasis in geotechnical and civil engineering, subsurface exploration techniques, site characterization, QA/QC materials testing, and civil construction practices. These projects include residential structures and commercial developments; state roadways, highways and bridges; multi-story building structures; educational facilities, and others; parking garages; wastewater and water treatment facilities; pump stations; lift stations; utilities and stormwater drainage; and park facilities. Member: American Society of Civil Engineers			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Polk County Roads and Drainage Division, Drainage Retrofit Projects, Polk County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior geotechnical engineer responsible for providing on-call service to transportation division for drainage retrofit projects affecting existing roads. Recent projects include Wahneta Infrastructure Masterplan, Bomber Road, Sunset Trail, Micanopy, Greenwoods Drive, Swindell Road, Kristina Court, Durham Drive, Stanley Ditch, Walt Williams Road, and many others. Stormwater projects typically include analysis and determination of causes of flooding, alternatives analysis for addressing the problem, and development of design plans to construct improvements.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Plant City Master Engineering Services, Plant City, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior geotechnical engineer responsible for leading team that delivers comprehensive engineering services to the City of Plant City since 2004. Services provided to date include roadway design, street scape projects, water main extensions, storm-water management system retrofit, street lighting design, canal stabilization, permitting, and construction management assistance.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Texas Department of Transportation (TXDOT), I-635 LBJ East Design-Build Project - Dallas County, Texas	PROFESSIONAL SERVICES: 2020	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior Geotechnical Engineer and Lead Verifier. The I-635 LBJ East Project is a $1.74 billion design-build roadway construction project by the Texas Department of Transportation (TxDOT) to improve mobility, operations and safety along Interstate 635 (I-635) in Dallas County. The project spans 11 miles beginning just east of US 75 in North Dallas to I-30 in Mesquite.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Village of Waterloo, Levee Certification, Waterloo, Nebraska	PROFESSIONAL SERVICES: 2010	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Performed seepage analysis for 18,100 lineal feet of a flood protection levee that was built around the Village of Waterloo to protect it from flooding of the Elkhorn and Platte Rivers. The Village was pursuing accreditation for the levee from the Federal Emergency Management Agency (FEMA).		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Dennis Crawford, PE	Soil, Materials Testing, and Foundations	10	1
15. FIRM NAME AND LOCATION (City and State)			
WSP (Altamonte Springs, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MS, Engineering, University of Wisconsin-Platteville BS, Civil Engineering, Temple University	Professional Engineer - PA		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Dennis is a Lead Consultant, Geotechnical Engineer with WSP. He received his Bachelor of Science degree in Civil Engineering from Temple University. He has 10 years of diverse experience in managing and executing geotechnical field projects across a wide range of industries.			

19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
	FEMA, Hurricane Irma (DR-4337), Orlando, Florida	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
a.	The $2 billion+ project involved the inspection and mitigation recommendations of disaster-damaged facilities such as, buildings, roads and utilities that required the replacement or restoration of. Assisted FEMA in disaster recovery efforts from Hurricane Irma in Florida in support of the FEMA Public Assistance (PA) program. Conducted site inspections, validated infrastructure damage, recorded detailed damage descriptions, scopes of work and cost estimates, identified and recommended potential mitigation measures, and evaluated projects for compliance with applicable laws, regulations and policies. Developed project worksheets and scopes of work.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
	United States Army Corps of Engineers (USACE), Freeport and Vicinity Coastal Storm Risk Management Project, Freeport, Texas	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
b.	The project involved the subsurface investigation for raising approximately 13 miles of an existing levee system, constructing/reconstructing approximately 5.5 miles of floodwall, and constructing drainage structures in Freeport, Texas. Assigned on-site supervisor position to oversee drilling operations. Laid out borings in the field and oversaw utility clearance. Performed field investigation for the drilling of soil test borings and cone penetration tests. Mentored junior staff.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
	Pennsylvania Department of Transportation I-95 Section GR4 Reconstruction, Philadelphia, Pennsylvania	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
c.	The $300 million+ project consisted of construction monitoring and management of subcontractors for the reconstruction and improvement of southbound I-95 from Columbia Avenue to north of Ann Street to provide four through lanes in each direction and a fifth auxiliary lane for ramp traffic entering and exiting I-95 between interchanges at Girard Avenue and Allegheny Avenue. The project included the construction of three retaining walls and more than forty piers. Oversaw the installation of 500+ micropiles including recording field observations, terminating micropiles at the specified design depth, monitoring and tracking grout placement, and reporting observations to the project geotechnical engineer. Supervised multiple subcontractors to confirm that the inspection of the micropiles was completed in accordance with design specifications.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Dustin Atwater, GISP	GIS/CAD Lead	a. TOTAL	b. WITH CURRENT FIRM
15. FIRM NAME AND LOCATION (City and State)			
WSP (Gainesville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BLA, University of Minnesota, Landscape Ecology	Geographic Information Systems Professional, No. 91642		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Dustin is a Geographic Information Systems (GIS) Professional working in the environmental discipline. Responsibilities include management, implementation, and development of GIS applications and several years of environmental planning experience. He has applied working knowledge of GIS technology including ArcHydro, ArcView, ArcInfo, and ArcGIS 10. He has used ArcView, ArcGIS, Visual Basic, and Microsoft spreadsheets and database programs. His primary duties include database design, spatial analysis, data conversions, and mapping. habitats. He also has experience in analyzing land-use and impervious surfaces. Dustin is charged with the ongoing management and quality assurance of deliverables.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**FDEP, Upper Myakka River Parks Restoration Engineering Services, Sarasota and Collier Counties, Florida**	2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	GIS lead responsible for data collection, data analysis, model development and report figures. WSP provided engineering services for the restoration of two water control structures that existed on the southern rim of the Upper Myakka Lake within the MRSP in Sarasota County, Florida. The structures were a dilapidated concrete weir constructed in 1941 and a bypass constructed in 1974.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**SRWMD, Lower Suwannee National Wildlife Refuge Hydrologic Restoration, Dixie and Levy County, Florida**	2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Provided GIS for this project that included online data collection, field reconnaissance, development of a GIS modeling database, development of existing conditions and proposed conditions hydrologic and hydraulic models, conceptual restoration designs, and opinions of probable cost for the proposed restoration alternative designs.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**FWC/Ducks Unlimited, MK Ranch Hydrological Assessment and Restoration, Gulf County, Florida**	2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	GIS lead responsible for data collection, data analysis, model development and report figures. WSP's scope of services included a field investigation, review and synthesis of available geographic information system (GIS) data, survey of hydrologically significant components of the site, development of a surface water modeling tool to evaluate the effectiveness of the prior restoration work and develop conceptual restoration options, preparation of a surface water monitoring plan, deployment of monitoring equipment, development of restoration conceptual design options and associated cost estimates, and preparation of a project report.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**FWC, Hickory Mound Impoundment Vulnerability Analysis, Taylor County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager for the vulnerability analysis. WSP was selected by the FWC to provide a watershed analysis and conduct a resiliency study at the Hickory Mound Impoundment Area in Taylor County, Florida. This project consisted of a hydrological assessment of the watershed to assist in the identification of potential impact along the levee during hurricanes or other significant storm events. The assessment included the evaluation from two or three major storm events and sea level rise that may occur in the future. WSP reviewed types and locations of impacts to the Hickory Mound levee and provided FWC with hydrologic best management practice (BMP) alternatives to minimize or eliminate the need of future maintenance of the site based on significant storms. After the impacts and potential hydrologic site modification alternative improvements were presented, FWC selected BMP's best suited for the site to further into engineering design, permitting, and construction.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Jose Milian	GIS/CAD	30	15
15. FIRM NAME AND LOCATION (City and State)			
WSP (Miami Lakes, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
N/A	N/A		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Jose has performed more than 180 visual assessments including the use of specialized photo simulation software. He has also served as the CAD design lead for several multi-million-dollar jobs for the FDOT as well as several out of state architectural and structural airport projects. His specific areas of expertise include the use of 3D animations, renderings, walk-throughs, and telecommunications, as well as environmental, architectural, structural, transportation, and geotechnical CAD design.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Monroe County Canal Management Master Plan, Phase 2, Monroe County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	GIS data administrator for this project funded by an EPA grant. The project involves completing the Canal Management Master Plan created during Phase 1 for the entire Florida Keys. Approximately 502 residential canals are being evaluated through field visits to determine water quality impacts and to identify appropriate cleanup options. Extensive homeowner interviews and meetings have been performed. The canals will be ranked for need for water quality improvement. An updated GIS database is being prepared incorporating the new information obtained on the Keys canals related to water quality and restoration options.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Miami-Dade County Department of Environmental Management,Virginia Key Central District Wastewater Treatment Plant, Virginia Key, Florida	PROFESSIONAL SERVICES: 2015	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	CAD specialist for this project that included creation of a master layout for development planning, several maps for soil and contamination removal, as well as boring logs and cross sections.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Department of Transportation/Dragados USA, I-595 Design Build, Davie, Florida	PROFESSIONAL SERVICES: 2014	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	CAD specialist responsible for providing geotechnical exploration, QC, CMT, and inspection services for a five-year FDOT project involving construction of three miles of HOT lanes on a three-lane highway. Current microstation CAD manager for the I-595 expansion project.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Broward County Aviation Department, Stormwater Services at Fort Lauderdale International and North Perry Airports, Florida	PROFESSIONAL SERVICES: 2008	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	CAD/environmental professional responsible for creating environmental data plans and GIS location plans. Provided stormwater compliance services for tenant facilities at Fort Lauderdale International and North Perry airports. Services included sampling, permitting, and facility inspections.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Alan Pixley	GIS/CADD	35	8
15. FIRM NAME AND LOCATION (City and State)			
WSP (Lakeland, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
Vocational Technical Center, Architectural Drafting Vocational Technical Center, Computer Aided Drafting	N/A		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Alan has 35 years of experience with municipal, utilities, transportation, and land development projects, plus an additional 10 years in concrete, steel, and other varied structural projects. Working with teams of multiple engineers, he has designed and assisted with grading and drainage, stormwater management facilities as well as new, relocated, and retrofitted utilities on residential, commercial, municipal, and industrial projects. Alan also has extensive experience with roadway improvements, wastewater collection systems, force mains, water mains, survey, and earthwork calculations.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Chain of Lakes Fieldhouse, Straughn Trout Architects, Winter Haven, Florida	PROFESSIONAL SERVICES: N/A	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Design includes a new 86,000-square-feet, two-story fieldhouse as an expansion to the existing Chain of Lakes building. Development consists of 12.9 acres on the 68.8-acre site.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Garden Grove Drainage Improvements Phase II, Polk County Roads and Drainage, Winter Haven, Florida	PROFESSIONAL SERVICES: N/A	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Design includes new storm sewer system to convey runoff from approximately 90 acres of developed area to stormwater pond designed, permitted, and constructed under earlier phase. Project is going to construction in spring 2018. Retrofit design must account for maintaining traffic, utilities, and drainage for surrounding residential neighborhood while minimizing impacts on residents.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Lakeland, Pond G, Florida	PROFESSIONAL SERVICES: N/A	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Assisting with design engineering for this stormwater retrofit BMP project to provide pollutant loading reductions to Lake Parker – an impaired water body. Pond collects extremely heavy loads of floatable debris and trash from an urban basin previously draining directly to Lake Parker.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Lake Conine Treatment Wetland Modification, Polk County Parks and National Resources, Lakeland, Florida	PROFESSIONAL SERVICES: N/A	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	This is a jointly funded project between Southwest Florida Water Management District (SWFWMD), City of Winter Haven, and Polk County to restore approximately 20 acres of low quality, dehydrated wetland along the southeast shore of Lake Conine in Winter Haven, Polk County.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Michael Flood, AICP	Climate Adaption/Resiliency Lead	34	16
15. FIRM NAME AND LOCATION (City and State)			
WSP (Baltimore, Maryland)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MS, Urban and Environmental Planning, University of Virginia BA, Urban Planning, University of Maryland	N/A		

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Mike has more than 33 years of consulting experience and is the National Resiliency Lead for WSP. In this role, he has led most of the national projects in WSP focused on determining the risks of extreme weather and climate change and the development of potential strategies for addressing those risks. This work has included work assessing potential impacts to buildings and facilities in the northeast and southeast, communities in Florida and Massachusetts and transportation facilities across the United States, including Puerto Rico, California, Alaska and Minnesota. The focus of Mike's recent work has been the development of methods, tools and strategies to help agencies make effective decisions in adaptation to climate change and extreme weather risks through development of prioritization processes. This work has included recent work on developing benefit-cost assessments of resiliency projects in the New York region, an assessment of impacts to infrastructure statewide in California and the conduct of training seminars on resiliency strategies and other similar efforts focused on helping agencies make effective decisions.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Pinellas County, Pinellas County Vulnerability Assessment, Pinellas, Florida**	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Served in the role of project manager on this effort to quantify long-term risks to the county and develop effective strategies to respond and achieve community viability in response to future storm and flooding risks. This effort followed a risk-based methodology to quantify potential future risks from flooding, determine damage and economic costs of future events, and utilize that information to determine the most cost-effective design/response strategies. The community considered this a critical effort in acting to achieve the long-term viability of the region and recommendations were incorporated into policy/planning documents.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Monroe County (Florida Keys), Seal Level Rise Programmatic Investment Assessments (2 contracts), Monroe County, Florida**	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Served in the role of technical lead/project manager on these projects to define appropriate capital investment decisions for infrastructure and buildings in the county in those areas where low-lying areas are already experiencing the effects of sea level rise and tidal flooding. The focus of one of these efforts included identifying the most cost-effective design option for their ongoing countywide roadway improvement project and how best to analyze county owned buildings.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**National Highway Institute, Addressing Resilience in Highway Project Development & Preliminary Design, Various Locations Nationwide**	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Served as project manager on this effort to develop guidance for transportation agencies nationwide on how to include resilience to extreme weather and climate effects in project planning and design. This course was generated to facilitate required changes toward addressing uncertainties, long-term risks, changing weather patterns and system impacts in corridor planning and design practice. Climate change vulnerability included slope stability, coastal flooding, riverine flooding, wildfire/debris flow, permafrost thawing and temperature effects.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Catherine Prince, MBA, PMP, LEED AP, STP	Climate Adaption/Resiliency	16	4
15. FIRM NAME AND LOCATION (City and State)			
WSP (Miami, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MBA, Boston University MA, University of Miami BA, Center for Environmental Planning and Technology University	Project Management Professional Greenroads Sustainable Transportation Professional Leadership in Energy and Environmental Design Accredited Professional		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Catherine is Vice President WSP USA and leads the resilience and sustainability practice in South Florida. She assists public agencies with developing and prioritizing climate-resilient strategies. Catherine served in public service for over 14 years at Miami-Dade County and the City of Fort Lauderdale. I worked hands-on and directly with communities at these entities to develop safe, resilient infrastructure. She also worked with underserved communities to create integrated solutions ensuring equitable outcomes.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	South Dade Maintenance Facility, Miami-Dade County, Department of Transportation, Florida	PROFESSIONAL SERVICES: 2023	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Catherine is leading the future climate-resilient engineering design considerations, working with the projects' mechanical, electrical, structural, and civil leads. The recommendations will be incorporated into the 100% design and integrated into the construction RFP.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Resilient Corridor Facility-level Climate Vulnerability Assessment, Hollywood Boulevard, Broward Metropolitan Planning Organization (BMPO), Florida	PROFESSIONAL SERVICES: 2023	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Catherine leads the pilot project using BMPO's Resilient Infrastructure Project Development Framework. The project objective is to develop a cost-feasible preferred conceptual design with implementation plan cost estimates. Also, recalibrate the Resilient Framework for future resilient projects development by the BMPO and implemented by the Florida Department of Transportation (FDOT).		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Brightline Station Mobility and Access Implementation Plan, City of Aventura and Ojus neighborhood, Florida	PROFESSIONAL SERVICES: 2021	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Catherine led the effort to identify safe mobility infrastructure options connecting to the new high-speed train station in Aventura/Ojus. The recommendations focused on safe last/first-mile safe connections for people using on-demand micro-transit, fixed-route transit and shuttles, micro-mobility, and rideshare to the proposed station. Also, Ms. Prince led the effort for digital outreach and virtual engagement to gain consensus of multi-agency stakeholders and neighborhood residents.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	2020 Vision Zero Implementation Plan, Miami-Dade County, Florida	PROFESSIONAL SERVICES: 2021	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Catherine led the effort to develop Vision Zero implementation plan led by the County's guiding values. The tasks include: setting Vision Zero guiding values with stakeholders, 5-years of crash data analysis identifying high-injury corridors and prioritizing projects criteria, identifying the underlying geographic inequity from past policies, developing engineering infrastructure countermeasures for the vulnerable user-mode, and infrastructure considerations for safe access to transit, conduct virtual educational workshops- for policymakers and professionals, and developing project evaluation criteria. Ms. Prince is responsible for developing recommendations to address the safety and recommendations to address geographic and modal inequity.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Rebecca Vanderbeck, PE	Climate Adaption/Resiliency	23	8
15. FIRM NAME AND LOCATION (City and State)			
WSP (Jacksonville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Environmental Engineering, University of Central Florida	Professional Engineer, Florida No. 64804		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Rebecca has more than 20 years of experience in environmental engineering, including management of utilities and infrastructure improvement projects, stormwater control and site civil design, resiliency planning, site investigations and soil characterization, environmental compliance and permitting, and other aspects of environmental engineering design. She has also worked with clients developing resiliency programs and engaged with stakeholders on both municipal and private projects. Through her project management experiences, Rebecca has implemented practices for tracking project budget and schedule and conducting quality assurance/quality control reviews. Rebecca is currently serving as the project manager on the McCoys Creek Restoration project for Groundwork Jacksonville and the City of Jacksonville, Florida.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Jacksonville and Groundwork Jacksonville, McCoys Creek Restoration, Jacksonville, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Contract Manager/Client Liaison responsible for managing the contract. This urban stream restoration is a large, complex high visibility project in downtown Jacksonville. Rebecca has led this project through completed conceptual designs and into engineering design up to construction plans and specifications for competitive bidding with constrained budgets, community and stakeholder engagement, grant opportunities and obligations and expedited schedules.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Peabody, Nationwide, GHG Emissions Accounting	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project Manager providing services to determine the materiality and quantity of Scope 3 GHG emissions at Peabody's US and Australian locations. The materiality assessment and process for quantification of material Scope 3 emissions will be retained as guidance for internal use as Peabody establishes further programs to support quantification and reduction of greenhouse gas emissions. This process will also support preparation for any potential climate disclosures that may be required under the proposed Securities and Exchange Commission rulemaking.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Atlas Air, ESG Reporting, Nationwide	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project Manager providing technical support and guidance to meet requirements of the Sustainability Accounting Standards Board (SASB) - Air Freight & Logistics Standard and Task Force on Climate-Related Financial Disclosures (TCFD) Framework to be used in the company's next ESG report. The project includes: a Scope 1 organizational boundary mapping and emissions inventory; a SASB disclosure; and scenario development, analysis and recommendations to meet TCFD requirements.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Rayonier Advanced Materials, GHG Emissions Accounting/ Verification, Jacksonville, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project Manager/Technical Lead providing guidance and methodology for incorporating sold Renewable Energy Credits (RECs) into RYAM corporate Greenhouse Gas (GHG) Calculations. Project also included an external review to support their 2020 GHG emissions reporting. Subsequently, conducted third-party verification of the 2021 and 2022 Scope 1 and Scope 2 GHG emissions inventories. Currently working on third-party verification of the 2022 Scope 3 GHG emissions inventory.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Nabil Bawany, PE, CFM	Climate Adaption/Resiliency	12	2
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Civil and Environmental Engineering, University of South Florida	Professional Engineer, Florida No. 86625 Certified Floodplain Manager, No. US-16-08996 Emergency Management Operations, FEMA Certified 100,200,700

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Nabil is a professional engineer with 11 years of experience, specializing in water resources and civil engineering design. Nabil recently Joined WSP after 8 years of local government experience. This unique perspective allows him to understand and deliver on client's needs. His expertise includes flood resiliency projects, project management, stormwater management systems, drainage solutions, operational guidance, government policy creation and review, all phases of watershed management planning, hydraulic modeling, stormwater design, residential and commercial land development, and government policy and grant procurement.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Texar, Carpenter Creek and Bayou Texar Watershed Management Plan BMP Alternative Analysis, Escambia County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Nabil provided QA/QC for BMP alternative analysis. The project involved the development of a comprehensive watershed management plan for the Carpenter Creek and Bayou Texar watersheds, totaling approximately 19 square miles in Pensacola, Florida. The management plan will provide a roadmap for identifying, addressing, and recommending actions for at least the following main objectives: water quantity and quality, fish and wildlife habitat, public access and recreation, and community resilience. In addition to hydraulic and hydrologic watershed modeling, this project will include statistical analysis of water quality and hydrologic data, stream assessment, and BMP alternatives analysis.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Pinellas County, Sea Level Rise and Storm Surge Vulnerability Assessment, Pinellas County, Florida**	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Nabil acted as the project manager for Pinellas County. To assess the County's vulnerability to rising seas and potential surge impacts, the County undertook a complex study to model and create flood inundation maps coupled with storm surge scenarios. Various maps for sea-level rise scenarios, horizons, and inundation durations, combined with storm surge projections, were used to help identify vulnerable assets and develop adaptation alternatives. The vulnerability assessment involved various stakeholders including local municipalities private and public utilities. The project was funded through the RESTORE Act which added another layer of complexity.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Pinellas County, Tide Check Valve Location Identification, Pinellas County, Florida**	2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Acting as project manager, Nabil was responsible for identifying the most vulnerable stormwater outfalls throughout unincorporated Pinellas County. Using Sea level rise and storm surge projections, he was successful in identifying ideal candidates. Nabil also was successful in obtaining federal earmarks grant funding in the amount of $240K for the installation of tide check valves.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Todd Boehmer, PE	Construction Engineering and Inspection (CEI) Lead	39	33
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Geological Engineering, University of Arizona	Professional Engineer, FL No. 42478 TIN: B56080163 FDOT CTQP QC Manager (Course and Exam) FDOT CTQP Final Estimates Level 1 and 2 (Pending Recert) ATSSA Certified Advanced Work Zone Traffic Control FDEP Storm Water, Erosion and Sedimentation Control Inspector		

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

Todd has more than three decades of construction experience on a wide range of assignments. This includes monitoring and quality control testing for numerous roadway, utility, structure, and airport projects. He has experience and knowledge on the following processes: asphalt roadway milling, resurfacing, and widening; concrete pavement construction, concrete pavement joint cleaning and sealing; structural concrete, bascule and steel bridges; mechanically stabilized earth walls; geosynthetic reinforced earth slopes; precast noise walls; drainage; signalization; highway lighting; high mast lighting; signing; striping; wetland mitigation; and landscaping. His responsibilities have included design phase reviews; utility reviews and construction coordination; conducting regular project coordination meetings with the contractor, subcontractors, and utility companies; CEI and materials testing; contract administration; and contractor negotiations.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Florida Department of Transportation District 1, SR 25 (U.S. 27) from Cloverleaf Road to SR 66, Highlands County, Florida**	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm		
	CEI senior project engineer for this $10.3 million project that comprises milling and resurfacing six miles of US 27 and includes construction of several paved side street connections, right turn lane improvements, median left turn lane and crossover improvements, an outside shoulder widening for a truck U-turn, drainage, guardrail, signal improvements and removal of existing paved median crossovers. (FPID 439434-1).		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Florida Department of Transportation District 1, SR 25 (U.S. 27) from South of SR 64 to North of SR 64 Intersection Improvements, Construction Engineering Inspection (CEI), Highlands County, Florida**	2019	2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm		
	CEI project engineer. Responsible for CEI services for 1.4 miles of roadway reconstruction and widening and resurfacing, consisting of concrete pavement construction, milling and resurfacing, base work, drainage improvements, curb and gutters, traffic separators, sidewalks, signing and pavement markings, signalization and lighting. This project also has utility coordination with existing CenturyLink, Comcast, Duke Energy, Level 3 Communications and TECO-Peoples Gas facilities in conflict with proposed construction. (FPID 434986-1).		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Florida Department of Transportation District 1, SR 35 (U.S. 17) from CR 760A to Heard Street Widening/Reconstruction Project, Construction Engineering Inspection (CEI), DeSoto County, Florida**	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm		
	CEI project engineer. Responsible for CEI services for 4.4 miles of roadway reconstruction and widening from two lanes to a four-lane divided highway. Contract improvements included extensive drainage, storm water ponds, a new bridge for over Joshua Creek, a noise barrier walls, and four UWHCA's projects for the city of Arcadia and DeSoto County that included water line, sewer force main and gravity lines, three sewer lift stations and a water booster station. The project contract also included two smaller milling and resurfacing projects in Arcadia which included 1.8 miles milling, resurfacing, drainage, ADA and signalization improvements, signage and pavement markings. These projects also had extensive utility coordination needs for FPL, Comcast, and CenturyLink existing facilities in conflict with numerous proposed new facilities. (FPID 193898-2).		

d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Department of Transportation District 1, SR 25 (U.S. 27) North of West Lake Isis Avenue to Polk County Line, Add Lanes and Resurfacing/Widening, Highlands County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒Check if project performed with current firm	
	CEI senior project engineer/project engineer. Project was a $10.1 million, 450-day contract to reconstruct 2.8 miles of urban and rural U.S. 27 from four to six lanes. Work included roadway resurfacing, overbuild and widening; median improvements; storm drainage with three retention ponds; and lighting, signalization, signing and striping. CSX flagger was required during construction of variable height concrete barrier wall and roadway construction within the CSX right of way. Also included a utility project for the city of Avon Park water and sewer facilities. (FPID 194485-1).		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Department of Transportation District 1, U.S. 92 from U.S. 27 Ramps to SR 17 Resurfacing, Polk County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2009	2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒Check if project performed with current firm	
	CEI senior project engineer. Managed this $1.2-million, 150-day lump sum contract to mill and resurfacing 1.4 miles of a four-lane divided urban roadway, with ADA improvements, signalization work at three existing locations, signing, striping and performance sod. Required coordination for paving operations within railroad right of way in Haines City.		
f.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Department of Transportation District 1, U.S. 92 West of Atlantic Road to West of Gary Road Concrete Pavement Rehabilitation, Polk County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2011	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	CEI senior project engineer for this 2.7-million, 250-day contract to rehabilitate concrete pavement on three miles of a four-lane and six-lane divided urban roadway with median and bridge safety improvements, ADA sidewalk modifications, signals, lighting, signing and striping. Required coordination with CSX for a railroad flagger during bridge work over CSX tracks.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Nestor Fernandez	Construction Engineering and Inspection (CEI)	39	14
15. FIRM NAME AND LOCATION (City and State)			
WSP (Miami Lakes, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
N/A	N/A		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Nestor is an experienced project and construction manager knowledgeable in South Florida building codes and all associated laws and regulations. With more than 25 years of experience, he has participated in managing, directing, coordinating, and administering all aspects of project management, construction oversight services, facility improvements, environmental remediation, systems operations/maintenance, construction cost estimating, and permitting.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
	Collier County Facilities Management Department, Facilities Management Assessments Phase I, Collier County, Florida	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project Manager, performed facility condition assessments of 86 government facilities (2 million square feet) throughout Collier County. Developed site specific inspection plans that addressed ADA, electrical, HVAC, structural, roofing, building envelope, indoor air quality, plumbing, security, low voltage, signage, pest control, and fire and safety related issues so that short- and long-term maintenance and budgeting requirements could be identified. Created baseline building assessment reports for each facility that identified its current condition, the immediate, five-year, and 10-year maintenance or replacement budgeting requirements.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
	Collier County Public Utilities Department, Immokalee Road Back Flow Preventer Project, Collier County, Florida	2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project Manager for this project for Collier County Public Utilities Department (CCPUD) which has an existing 36-inch water main located along Immokalee Road. The purpose of the project is to install a temporary maintenance and reliability backflow assembly connection that will connect the eastern portion of the water main to the active western portion of the water main. This will allow the County to use the inactive 36-inch diameter water main for interim operating conditions downstream of the new assembly. The project also required installation of bell restraints along 220 linear feet of water main because of the new 36-inch by 18-inch tee with plug.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
	T1669 – SR 78 (Pine Island Road) from Chiquita Blvd to Santa Barbara Blvd, Sidewalks/Path Project (FIN 435023-1-52-0), Lee County, Florida	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Material Testing Lab Director responsible for managing and monitoring the processes to ensure compliance with the contact documents. Daily activities include material testing and inspections and placement in accordance with the applicable specifications. The improvements under this contract consist of milling and resurfacing, widening, base work, shoulder treatment, curb and gutter, bike lane keyholes, sidewalks, signing and pavement marking, and lighting on State Road 78 (Pine Island Road) from Chiquita Boulevard easterly 0.858 miles to Santa Barbara Boulevard in the City of Cape Coral, Lee County.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
	PUD-Annual Fixed Ladder Inspections Collier County Board of Commissioners, Naples, Florida	2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Performed Annual Preventative Maintenance Inspections and certification of 100 fixed ladders installed within the four water and wastewater plants in Collier County. The objective is to identify the serviceability of all fixed ladder and any required short- or long-term maintenance needs, provide engineered solution (Scopes of Work) to address noted compliance issues and certify after repairs.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Luis Ponce, PE, CGC	Construction Engineering and Inspection (CEI)	36	16
15. FIRM NAME AND LOCATION (City and State)			
WSP (West Palm Beach, Florida)			

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Construction Management, Florida International University BS, Civil Engineering/Transportation, Universidad Laica (Ecuador)	Professional Engineer - FL, NH Certified General Contractor, Florida, No. 1509404 Standard Building Inspector, Florida, No. 3345 Certified Building Inspector, Commercial and Residential Buildings, No. 5189975-B5 Certified Plans Examiner/Plans Reviewer, No. 5253465-B3 Certified Radiation Safety Officer, Florida Radiation Safety and Use of Nuclear Gauges Operator Hazardous Materials, Florida

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Luis is a Construction Manager and Senior Engineer with 35 years of experience in the construction and geotechnical engineering fields. He has managed many complex engineering and construction projects throughout Florida, Georgia, Puerto Rico, and South America. His expertise includes construction planning, scheduling, technical oversight, value engineering, QA/QC, and field and laboratory data evaluation, as well as preparation of engineering recommendations for foundation design and construction for different types of projects, including residential and commercial developments, roadways, public schools, office buildings, communication towers, and parking garages.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Black & Veatch (B&V), C-51 Storage Reservoir Phase-1, Palm Beach Aggregates, Palm Beach County, Florida**	2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Responsibilities included site visits and QA review of WSP's field inspection programs, review and approval of materials testing reports, staffing and resource management, compliance with technical specifications, tracking deficiencies and deliverables. WSP supplied Quality Control (QC) and QC supporting staff, as well as the necessary field and laboratory equipment during construction of the C-51 Reservoir (Phase 1).		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**South Florida Water Management District (SFWMD), CEPP New Waters EAA A-2 STA, Palm Beach County, Florida**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Responsibilities include staffing and resource management, compliance with technical specifications, tracking deficiencies, staffing coordination, deliverables, and geotechnical engineering support, as needed. WSP is providing Project Management and QA reviews of the overall Quality Control process during construction of the proposed STA.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Miami-Dade County Water and Sewer Department, Installation of 6" and 10" PVC FM from PS 0493 to MH 0137, Sunny Isles and Golden Beach, Florida**	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Managed and coordinated all aspects of the geotechnical exploration and engineering recommendations for site preparation requirements, general construction, and foundation support for the planned pump station relocation in Cutler Bay, Florida.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Timothy Howard, EI	Construction Engineering and Inspection (CEI)	25	20
15. FIRM NAME AND LOCATION (City and State)			
WSP (Tampa, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Civil Engineering, Construction, University of Wisconsin BS, Industrial Technology Management, Building Construction Management, University of Wisconsin	Engineer Intern, Florida		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Tim has 24 years of experience in the construction engineering and inspection (CEI) field and a variety of construction administration project experience. He specializes in site development, specifically drainage and stormwater projects. He also has eight years of experience with the U.S. Navy Seabees providing drafting and surveying services. He has managed commercial and retail construction projects where his responsibilities included estimation, bidding, and project management. Tim is an Engineer Intern who passed the Florida PE exam and is completing registration.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Department of Transportation District 1, SR 25 (U.S. 27) from Cloverleaf Road to SR 66, Highlands County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior inspector responsible for CEI of project comprising milling and resurfacing of 6 miles of U.S. 27 and includes construction of several paved side street connections, right turn lanes improvements, median left turn lane and crossover improvements, shoulder widening for a truck U-turn, drainage, guardrail, signals upgrade, and removal of existing paved median crossovers.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Hardee County BOCC/Florida Department of Transportation District 1, CR 665 Hardee County from SR 64 to CR 663 Construction Engineering Inspection, Hardee County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Senior inspector responsible for CEI services for 13.8 miles of roadway reconstruction improvements to CR 665 of Hardee County. Contract improvements included drainage improvements, pavement milling, road base work, pavement widening, and resurfacing.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Department of Transportation District 1, U.S. 41 (SR 45) from Salford Blvd to Sumter Blvd Reconstruction Project, Construction Engineering Inspection, Sarasota County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Inspector responsible for CEI services for 1 mile of roadway reconstruction improvements to U.S. 41 of North Port's main shopping district. Contract improvements included widening the roadway from an existing four-lane divided rural section to a six-lane divided suburban section, milling and resurfacing between 19 and 24 feet of existing pavement, widening 11.5 feet to the inside with curb and gutter and a raised median, widening 17 feet to the outside with a 6.5-foot inside shoulder and a 10-foot outside shoulder, a 6- or 8-foot sidewalk, and roadside ditches.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Department of Transportation District 1, SR 35 (U.S. 17) from CR 760A to Heard Street Reconstruction Project, Construction Engineering Inspection, DeSoto County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Inspector responsible for CEI services for 3.3 miles of roadway reconstruction and widening from two to four lane divided. Contract improvements included extensive drainage, ponds, a new bridge for Joshua Creek, five JPAs for water, and a force main for the City of Arcadia and DeSoto County. The project also included two smaller milling and resurfacing projects north of this project and included milling, resurfacing, widening, guardrail, sidewalk, noise barrier wall installation, signage, and pavement markings, as well as extensive utility coordination for FPL, Comcast, and CenturyLink existing facilities in conflict with numerous proposed new facilities.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Mark Griffith, PE	MEP Lead	36	10
15. FIRM NAME AND LOCATION (City and State)			
WSP (Kennesaw, Georgia)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Electrical Engineering, Tennessee Technological University	PE - AL, DC, DE, FL, GA, IL, IN, KS, KY, LA, MD, ME, MO, MS, NC, NH, NY, OH, OK, PA, SC, TN, VA, WV		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Mark has more than thirty years' electrical engineering experience in electrical facilities design, construction administration, and electrical distribution system analysis. He has been involved with all phases of electrical power distribution design for new and retrofit projects, from initial design concepts through construction and operation of electrical generation, distribution, and control systems/equipment. Mark has prepared engineering proposals and cost estimates for various projects for nuclear, industrial, commercial and municipal facilities and site throughout the United States.			

19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**US Coast Guard Destin Station Repairs and Renovations, Destin, Florida**	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	MEP engineering design for exterior lighting upgrades, roof improvements, and generator replacement at the USCG station located in Destin, Florida. The electrical design consisted of the power distribution, exterior lighting including controls, lightning protection, and cathodic protection systems for an aboveground fuel storage tank. Load analyses and calculations were performed to upsize the existing diesel engine-generator for the station emergency loads. Exterior lighting upgrades included the placement and circuiting of LED luminaires and lighting controls for a complete and operable exterior lighting system.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**US Coast Guard Design of Major Maintenance of Hospital Point Housing, Beverly, Massachusetts**	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Inspected the electrical system and the hard-wired smoke detectors and CO detectors for compliance with current NFPA and MA Fire Code requirements. Developed the electrical design for the Initial Design Report (IDR) at 20% design. The IDR gave a holistic perspective on the current issues with the housing facility and allowed the USCG to make informed decisions on the best repair actions. Sustainable design included upgrade to LED type light fixtures. Inspected and designed exterior lighting upgrade, considering the different styles in the outdoor environment that included a foot-candle site plan showing the lighting levels.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Southern Nuclear Operating Company, Dissolved Oxygen Injection System, Port Wentworth, Georgia**	N/A	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Providing technical oversight and support for the electrical design of a dissolved oxygen injection system to inject 4000 pounds of oxygen per day into the Savannah River to offset an expected oxygen deficit created by the withdrawal of water upstream at Plant Vogel for new Units 3 and 4. The electrical design includes medium voltage power distribution, lighting, controls and security around the facility. Construction administration included equipment submittal reviews, RFI responses and coordination with the primary contractor and PLC integrator.		

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

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Binh Nguyen, PE, CEM	MEP	19	16

15. FIRM NAME AND LOCATION (City and State)

WSP (Gainesville, Florida)

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BA, Electrical Engineering, Electrical and Computer Engineering, University of Florida	Professional Engineer, Alabama No. 33390-E, Mississippi No. 21190, Georgia No. PE037744, Florida No. 74535 Certified Energy Manager, US No. 14771

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Binh has more than 19 years of professional experience as an Energy Manager, Energy Auditor, Design, and Project Engineer/Manager in the field energy resiliency/conservation, decarbonization, greenhouse gas reduction, lighting, and HVAC projects. His direct project experience includes all phases (audit through construction) of energy sustainability projects including energy auditing, renewable/alternative energy feasibility studies, LED lighting design, retro-commissioning, utility bill analysis, and HVAC controls design. He has designed energy retrofits for small o□ces buildings up to large-scale warehousing and manufacturing facilities. His experience also includes identifying and designing energy resilience and microgrid generation projects. Binh has 10 years of experience with WSP's internal Microsoft SharePoint sites used to organize and distribute project data and deliverables. He has all internal WSP training and credentials to be a SharePoint site owner and administrator.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
Department of the Interior - National Park Service (NPS), 024 SOCC Energy Audits, Colorado	2017	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm

Responsible for the auditing and technical assistance to junior auditors for this task order including 40 national parks nationwide. This project consisted of revisiting audits previously performed by WSP and others to determine if original recommendations were implemented and to report any new recommendations. As part of the value-add services, WSP is helping the NPS find contract vehicles and other methods to fund and implement these audit findings.

b.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
U.S. Postal Service (USPS), 2017 Energy Audits and Designs Phase 11	2017	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm

Responsibilities included performing field work and reviewing overall quality of technical work performed by seven audit and retro-commissioning (Rx) teams performing energy audits and functional control testing of the BAS system and rewriting control sequences to achieve energy systems. All BAS systems were to be integrated with an Enterprise Energy Management System via Tridium JACE connection to allow USPS HQ to monitor systems points. Every project site also had a lighting design included. Projects exceeded 22% ROI and encompassed $50 million in system upgrades resulting in annual energy savings in excess of $11 million per year. Total square footage at the sites exceeded 37 million square feet and included 90 sites in Minneapolis; New York City; Washington DC; Chicago; St Louis; Portland, Oregon; San Francisco; Los Angeles; Seattle; Dallas; Anchorage, and others.

c.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
U.S. Postal Service (USPS), Bundle 9 Plant Audits and Energy Conservation Measures Designs, Nationwide	2017	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm

As a Senior Energy Engineer/Technical Manager responsibilities included performing field work and reviewing overall quality of technical work performed by seven audit and retro-commissioning (Rx) teams performing energy audits and functional control testing of the BAS system and rewriting control sequences to achieve energy systems. All BAS systems were to be integrated with an Enterprise Energy Management System via Tridium JACE connection to allow USPS HQ to monitor systems points. Every project site also had a lighting design included. Projects exceeded 22% ROI and encompassed $50 million in system upgrades resulting in annual energy savings in excess of $11 million per year. Total square footage at the sites exceeded 37 million square feet and included 90 sites in Minneapolis; New York City; Washington DC; Chicago; St Louis; Portland, Oregon; San Francisco; Los Angeles; Seattle; Dallas; Anchorage, and others.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
David Sterling, EI, CEM	MEP	35	35
15. FIRM NAME AND LOCATION (City and State)			
WSP (Gainesville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Environmental Engineering, University of Florida	Engineer-in-Training, FL No. NV9999 Certified Energy Manager, No. 17871		

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

David is a certified energy manager and auditor who has performed detailed energy audits and lighting designs for the last 20 years. His project experience includes energy conservation projects, energy efficient lighting and mechanical system design, energy management projects, implementation cost estimation, savings and returns on investment calculations, life cycle cost analysis, measurement and verification/commissioning (M&V/Cx) services, construction administrative services, utility bill analysis, and lighting and HVAC auditing. David is the supervisor WSP's Gainesville, Florida Energy Group.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	U.S. Department of the Interior - National Park Service (NPS), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Level 2 Energy Audits, Colorado	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager responsible for the auditing, review, and overall quality and deliverables for this task order including eight national parks nationwide.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	FESCO Ltd, Louisiana Army National Guard Level 2 Energy Audits and Utility Bill Analysis	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager for energy audits at Louisiana National Guard facilities. These audits were part of the performance contract owned by FESCO. Audits included detailed utility bill analysis, energy conservation measure (ECM) development and costing, analysis of occupancy sensor data, preparation of investment grade audits.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	U.S. Department of the Interior - National Park Service (NPS), Carl Sandburg National Historic Site, ECM Implementation, Hopkins, South Carolina	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Principal engineer for implementation of ECMs identified during energy audit performed at Park. ECM implemented included plumbing, lighting, building envelope, and installation of a photovoltaic system. WSP was responsible for the design, solicitation, procurement, construction management, commissioning, and measurement and verification.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	New York City Housing Authority (NYCHA)/Constellation New Energy (CNE), Energy Audit Support, New York, New York	2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	As project manager, David provided energy engineering support services, including performing New York City Housing Authority energy efficiency audits and New York City Building Code compliance inspections, and preparing designs for energy conservation measures (ECMs). WSP provided energy engineering support services, including performing New York City Housing Authority energy efficiency audits and New York City Building Code compliance inspections, and preparing designs for ECMs.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
e.	U.S. Postal Service (USPS), Bundle 7 Plant Audits, Greensboro, North Carolina	2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	As project manager, David provided energy audits and energy efficient design at USPS processing facilities nationwide.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Wendy Bruss, PE	Facility Assessment and Maintenance Lead	24	14
15. FIRM NAME AND LOCATION (City and State)			
WSP (Charlotte, North Carolina)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MS, Civil Engineering, University of South Carolina BS, Civil Engineering, University of South Carolina	Professional Engineer, Civil Engineering, NC No. 036005, SC No. 30675		

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

Wendy is a structural engineer with 24 years of industry experience including new construction and building remediation, project management, and consulting on a variety of commercial, institutional, and residential structures for both public and private sector clients. She evaluates and designs repairs for existing structural systems of buildings and other structures showing signs of material degradation, overloading, excessive deflections, improper construction, inadequate design, and structures requiring change of occupancy or building code updates. She has worked with structures comprised of precast concrete, reinforced concrete, masonry, structural steel, and heavy timber structural systems. Wendy interprets and applies the life-safety and serviceability requirements of the various editions of building codes and utilizes non-destructive and destructive test methods to investigate building components and construction materials. She develops drawings/specifications and performs construction administration services for new construction, additions, alterations (modifications), repairs, changes in occupancy, and restoration/preservation of historic structures. She has provided emergency response services related to tornados, hurricanes, failed roof and structural systems, vehicular impact to structures, and has performed seismic evaluations and peer reviews.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
Defense Logistics Agency, Energy (DLA-E) Chibana Complex Building Renovations, Okinawa, Japan	2018	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm

Structural lead within a team tasked with the renovation of 11 structures at the DLA-E Chibana Complex. She evaluated the existing conditions of the structures and designed structural framing members required for the renovations. WSP is performing a Tier1/Tier 2 ASCE 41-17 seismic evaluation of several of the structures and is providing a report with recommendations for seismic remediations. WSP is also performing anti-terrorism blast analysis on three of the structures that are adjacent to the perimeter fence and are providing a report with recommendations.

b.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
Defense Logistics Agency (DLA), Fire Suppression Upgrades, Various Military Installations, Various States	2016	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm

Structural lead within a team visiting various military installations across the United States to perform the work related to upgrading the fire suppression and alarm systems at DLA facilities. She evaluates the existing structural framing systems and provides recommendations for the installation of new fire and mechanical, electrical, and plumbing (MEP) equipment, and the construction of new structures (such as pump houses or water storage tanks). She also indicates if there are areas that require structural repairs or further investigation.

c.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION
Concrete Repairs at 300 South Brevard Street, Charlotte, North Carolina	2017	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm

Project manager as WSP responded to an emergency request to evaluate a large spall discovered at a perimeter concrete beam during a façade renovation of a 15-story structure. The area of distress was located on the 8th floor of the structure. Repairs included the design of shoring systems for the interior and exterior structural framing, a steel frame, and jacking system. Post-tensioned tendons within the intersecting concrete beam were destressed and later restressed. Additional column ties and anchor bolts were installed at the area of distress. The existing column reinforcement at this location was repaired. Concrete repairs were made to the perimeter beam, as well as to the post-tensioned beam.

d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	CBRE Managed BB&T Bank Branches, Structural Building Assessments and Repair Design, Various Locations, United States	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒Check if project performed with current firm	
	Structural lead providing structural assessments for BB&T Bank Branch locations when requested by CBRE. Reviews existing construction drawings, previous assessment reports, and repair documentation when available. Interviews bank personnel familiar with the structures. Reports are provided to CBRE containing a summary of the document review, interviews, observations, photographs, and general repair recommendations. Further investigation recommendations and life safety issues are included when necessary. WSP provides engineering design services for the recommended repairs when requested by CBRE. Construction drawings and specifications are then provided for the repair work.		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Hanger Renovation, Moron AB, Spain	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒Check if project performed with current firm	
	Project designer who visited the site to observe and document the existing structural framing including the connections. Performing calculations to determine whether the existing members have sufficient structural capacity to support a new fire protection system, overhead crane system, and new metal wall and roof panels. WSP is performing a complete renovation of an aircraft hangar at the Moron AB, Spain. WSP performed a Tier1/Tier 2 ASCE 41-13 Seismic Evaluation of the existing hangar structure and designed the required seismic remediations.		
f.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Defense Logistics Agency (DLA), Defense Distribution Depot Heavy Timber Truss, Column, and Column Corbel Evaluation, Red River, Texas	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project designer responsible for performing a structural assessment of selected components of the roof framing systems of warehouses in use by the DLA at DDRT and providing engineering repair drawings to remediate noncompliant items identified. Is Reviewing existing drawings and visiting the site at DDRT in Texas to observe and identify deficiencies at the existing heavy timber trusses, corbels and columns. Also, is creating reports, cost estimates and repair documents consisting of drawings and specifications.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Eric Lasater	Facility Assessment and Maintenance	39	4
15. FIRM NAME AND LOCATION (City and State)			
WSP (Kennesaw, Georgia)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, Building Construction, University of Florida, Gainesville	N/A		

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Eric offers more than three decades of experience in project management, facility management, and staff supervision experience. He has managed multimillion-dollar projects with proven expertise in establishing and maintaining productive working relationships with team members, clients, and all levels of professionals. Current duties also include business development growing the industrial sector for facilities services with existing and new clients.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**Confidential Aerospace Client, Command Center Relocation**	2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project involved conceptual design, schedule, and cost estimate for relocation of Command Central Station using ICD 705 SCIF standards including head-end security, fire alarm, access control, ID processing and Government Compliance office.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**Confidential Aerospace Client, Emergency Generators Replacement**	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project involved successful turnkey design/build of three emergency generators replacements simultaneously while maintaining critical power availability using temporary generators. Construction completed on schedule using a fast-track approach to mitigate risk.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**Confidential Aerospace Client, 15KV Feeder Replacement and Transformer Consolidations**	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Role responsible for providing technical guidance and project management oversight for peer review of 15 KV feeder replacement design and the successful turnkey design/build for consolidation of transformers in an active industrial facility.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**Confidential Aerospace Client, Roofing Assessment Program**	2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project team provided asbestos testing, roofing inspections, roof replacement options and estimates for 9 buildings on a contiguous campus for client capital planning.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Keith Ponitz, MBA, CEM	Facility Assessment and Maintenance	41	9
15. FIRM NAME AND LOCATION (City and State)			
WSP (Gainesville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MBA, University of South Florida BS, Mechanical Engineering, University of Florida	Certified Energy Manager, #3754		

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

Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM

Keith has more than three decades of experience in energy efficiency specializing in HVAC, thermal energy storage, distributed generation, chilled water, heating hot water and steam systems. Project experience includes ASHRAE Level 2 audits, investment grade feasibility studies, chiller plant optimization, mechanical and electrical designs. He has extensive energy efficiency experience with university campus systems at the buildings, central energy plants (chilled water, steam, combined heat and power), as well as the distribution systems and utility infrastructure. His most recent university experience involved energy efficiency improvements for 12 million square feet of campus buildings as well as nine central energy plants. Keith was also responsible for the selection and implementation of a campus-wide Enterprise Energy Management System that integrated four different controls companies building automation systems as well as metering for electric, chilled water, hot water and steam.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	**USPS, K30389 Memphis NDC, Memphis, Tennessee**	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Performed mechanical analysis and design for chiller and boiler replacement. Design included new 2,300- volt chillers with variable frequency drives, new dual-fuel boilers, HVAC controls upgrade and chiller plant optimization.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	**U.S. Postal Service (USPS), C58332, Richmond, Virginia**	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Performed mechanical design for HVAC replacements for air handlers, dual duct air terminal units, chillers and controls. Design included replacing water-cooled chillers that were located in the basement with air-cooled chillers located on the roof, where the cooling towers were located.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	**USPS, C32179 North Metro PDC, Duluth, Georgia**	2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Performed mechanical analysis and design for boiler replacement. Design included four new high efficiency condensing boilers to replace two dual-fuel boilers.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	**Georgia Power, UESC Preliminary Audit, Marine Corp Logistics Base (MCLB-Albany), Albany, Georgia**	2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Performed analysis for mechanical ECMs including absorption cooling, thermal energy storage, and controls upgrades. Evaluated SmartGrid and rate option opportunities that included multiple on-site generators and incorporated the addition of battery storage technologies.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
e.	**Georgia Power, UESC 35% Design & Feasibility Study, Controls Upgrades and Replacements, Warner Robins Air Force Base, Warner Robins, Georgia**	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Provided controls design analysis for controls upgrades and replacements in two office buildings and a paint/depaint facility. Design included optimization of air handler control sequences and chiller plant optimization.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Garrett Sutclifee, CEM	Facility Assessment and Maintenance	10	10
15. FIRM NAME AND LOCATION (City and State)			
WSP (Gainesville, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
MS, Mechanical Engineering, University of Florida BS, Mechanical Engineering, University of Florida	Certified Energy Manager		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Garrett holds a master's degree in mechanical engineering from the University of Florida with a specialization in energy engineering. He holds a graduate certificate in energy management from the University of Florida. His project experience includes energy conservation projects, energy efficient lighting and mechanical system design, energy management projects, implementation cost estimation, savings and returns on investment calculations, life cycle cost analysis, construction administrative services, utility bill analysis, and lighting and HVAC auditing.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	U.S. Postal Service (USPS), C71254 Los Angeles National Distribution Center Energy, Bell, California	PROFESSIONAL SERVICES: 2018	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm		
	As mechanical engineer, Garrett assessed and inventoried lighting and mechanical systems at the National Distribution Center His role included energy auditing, ECM costing, lighting design, life cycle cost analysis, bid solicitation and construction administration services. This consisted of an energy audit, implementation cost estimation, building models using Trane Trace, and life cycle cost analysis. The project builds on the energy audit and concept designs performed by WSP at the site. Work was completed within the schedule requirements and USPS Project Managers.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	U.S. Postal Service (USPS), C71826 Minneapolis Processing and Distribution Center (PDC) Architecture Engineering (AE) Construction Administration (CA) Service, Minneapolis, Minnesota	PROFESSIONAL SERVICES: 2018	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm		
	As mechanical engineer, Garrett assessed and inventoried lighting and mechanical systems at the PDC. His role included energy auditing, ECM costing, lighting design, life cycle cost analysis, bid solicitation and construction administration services. This consisted of an energy audit, implementation cost estimation, building models using Trane Trace, and life cycle cost analysis. The project builds on the energy audit and concept designs performed by WSP at the site. Work was completed within the schedule requirements and USPS Project Managers.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	U.S. Postal Service (USPS), C71834 Van Nuys Santa Clarita CA, Santa Clarita, California	PROFESSIONAL SERVICES: 2018	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒☐ Check if project performed with current firm		
	As mechanical engineer, Garrett assessed and inventoried lighting and mechanical systems at the facility. His role included energy auditing, ECM costing, lighting design, life cycle cost analysis, bid solicitation and construction administration services. This consisted of an energy audit, implementation cost estimation, building models using Trane Trace, and life cycle cost analysis. The project builds on the energy audit and concept designs performed by WSP at the site. Work was completed within the schedule requirements and USPS Project Managers.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Charles (Chip) Gardiner, PLS, CFEDS	Surveying Lead	41	35
15. FIRM NAME AND LOCATION (City and State)			
WSP (Orlando, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, University of Florida, Surveying and Mapping AS, Central Florida Community College, Civil Engineering	Professional land Surveyor, FL (LS5046); Certified BLM Federal Surveyor, (1475)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Chip has more than 40 years of experience in surveying and mapping activities, including management and execution of projects for private and public sector clients. His extensive technical background accentuates his ability to manage personnel and projects effectively. He is currently the Operations Manager of the Surveying and Mapping department for WSP's Florida offices. In this capacity, he is tasked with the management of personnel and resources, scheduling and tracking of projects, and quality assurance within the department. Chip has specific expertise in geodetic surveying (conventional and GPS), route/design surveying and mapping, and boundary surveying. Furthermore, he has a background with an emphasis on the modern technologies – including GNSS, GIS, and LiDAR – being used for the surveying and engineering professions.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	FDEP, Wekiva-Ocala Greenway Hunter Parcel Lake, Orange, Seminole and Volusia Counties, Florida	PROFESSIONAL SERVICES: 2022	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager/surveyor responsible for managing and overseeing the boundary survey performed as part of the Florida Forever land acquisition program. This boundary survey was performed as a Task Assignment under the WSP statewide survey services contract with FDEP. This challenging survey entailed retracement of PLSS controlling corners in Section 22, T 17S, R28E and retracement of a very old record plat to establish the boundaries of this 150-acre parcel. All property corners and lines were referenced and marked according to Florida Forest Service specifications.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SRWMD Pinehatchee Addition Boundary Survey, Lafayette County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager/surveyor responsible for managing and overseeing the survey, post, and paint. SRWMD requested the services of a Florida Licensed Professional Surveyor and Mapper (LS) to survey, post, and paint approximately 60,070 feet of the Pinehatchee Addition Tract in Lafayette County, Florida. The Pinehatchee Addition Tract is an approximately 3,000-acre tract composed of approximately 11 parcels. WSP surveyors are performing the boundary survey.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Brightline Trains Florida Intercity Rail Project, Cocoa to Orlando, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager/surveyor responsible for managing and overseeing all surveying and mapping services necessary to acquire the land and plan, permit and design a 40–mile segment of new high-speed rail corridor from Cocoa in Brevard County to Orlando international Airport (OIA).		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Tampa Bay Water Monitor Well Locations, Tampa, Florida	PROFESSIONAL SERVICES: 2021	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project manager/surveyor responsible for managing and overseeing the survey. Under a continuing surveying services contract with TBW, WSP performed a specific purpose location survey of multiple hydrological monitoring devices and related benchmarks relative to NAVD 88 and NGVD 29 vertical datums and NAD 83/11 horizontal datum in Hillsborough and Pasco Counties. Deliverables products included a (1) Surveyor's Report, (2) Monitoring Sites List spreadsheets, (3) miscellaneous benchmark list spreadsheets, (4) Benchmark Forms signed and sealed with published benchmark reference sheet, and (6) Color photos of each hydrological site and device.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
R. Michael Jones, PLS, CFedS	Survey	47	36
15. FIRM NAME AND LOCATION (City and State)			
WSP (Altamonte Springs, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
AS, Civil Engineering & Land Surveying	Professional Land Surveyor: FL, GA, AL, MS, TX, CA Certified BLM Federal Surveyor #1486		

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

Michael is a Senior Principal Surveyor and Project Manager as well as a registered Professional Land Surveyor with more than four decades of professional experience in surveying and mapping. He is extremely proficient in all aspects of survey management, including project planning, estimating, and implementation. He has specific expertise in the areas of geodetic control surveys, engineering design surveys, subsurface utility surveys, bathymetric surveys, and boundary determinations. He has managed surveying and mapping projects for government agencies at the local, regional and state levels, including SWFWMD, SJRWMD, Tampa Bay Water, USACE, and FDEP.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
a.	City of Ocoee Continuing Land Surveying Services, Ocoee, Florida	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm		
	Beginning in 2008 through a series of four consecutive continuing surveying and mapping contracts, WSP has provided surveying and mapping services on an as-needed task assignment basis to various departments within the City including Capital Projects, Utilities, Public Works, Engineering, and Parks and Recreation.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
b.	Continuing Surveying and Mapping Services, Orange County School Board, Florida	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm		
	Project manager since 2008 in support of capital improvement projects. Typical assignments have included boundary, topographic, and subsurface utility surveys of existing school sites to support site rehabilitation design and construction.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
c.	Pump Station No. 3201 (Old Cheney Highway), Orange County Utilities, Florida	2019	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm		
	This project was performed under the Orange County continuing surveying and mapping services contract. Served as project manager in completing the project which involved the following elements: a geodetic control survey, property acquisition survey, legal description and sketch preparation, as-built/record survey, topographic survey, and subsurface utility engineering.		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
d.	Orange County Continuing Surveying Services, Orange County, Florida	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒Check if project performed with current firm		
	Supporting various county departments including Capital Improvements, Public Works, Parks and Recreation, real estate, and roads and drainage. Representative assignments have included geodetic control densifications, topographic surveys, utility route surveys, photogrammetric survey control, lift station surveys, preparation of legal descriptions, and GIS inventory mapping.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Max Ramos, PLS	Surveying	26	24
15. FIRM NAME AND LOCATION (City and State)			
WSP (Orlando, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS, University of Florida, Surveying and Mapping	FL- Professional Land Surveyor, PLS, No. LS6458		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Max Ramos has 26 years of Florida field/office experience (including 24 years with WSP) with an emphasis on GPS surveying, GIS computations, deed analysis, preparation of legal descriptions, and automated map production. Max has been involved in all phases of survey projects including planning, recon, measurement, analysis, and presentation of data. He is proficient in the use of adjustment software such as STAR*NET, GEOLAB, and the Trimble suite software as well as AutoCAD and Micro Station mapping software.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	USDA-NRCS, Spanish Trails Ranch Wetlands Restoration Charlotte County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project surveyor responsible for overseeing office operations. WSP was engaged to provide the surveying and mapping and engineering services necessary to prepare engineering plans and specifications for hydrologic restoration of the 3460-acre Spanish Trails Ranch, located in Charlotte County, Florida. The survey services consisted of establishing a site specific horizontal and vertical control network of monuments, relative to NAD 83/11 and NAVD88, to support aerial fixed-wing LiDAR topographic mapping and supplemental field survey, location and mapping of existing structures, profiles and cross sections of roadways, canals, levees, and ditches, location of wells and other significant improvements and detailed topographical survey of specific areas as identified by the project team.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Brightline Trains Florida Intercity Rail Project Cocoa to Orlando, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project surveyor responsible for overseeing office operations. WSP provided all surveying and mapping services necessary to acquire the land and plan, permit and design a 40–mile segment of new high-speed rail corridor from Cocoa in Brevard County to Orlando international Airport (OIA). Performed under a master services agreement with Brightline, surveying services included: (1) establishing a horizontal and vertical control network relative to NAD 83/11 and NAVD88, (2) right-of-way survey from Cocoa through OIA encompassing 12 ownerships, (3) topographic survey of corridor using airborne LiDAR and conventional survey, (4) Ordinary High-Water Surveys and hydrographic surveys at the St. Johns River and at Econlochatchee River, and (5) preparation of sketches of description for land acquisition and easement rights.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Tampa Bay Water Monitor Well Locations, Tampa, Florida	PROFESSIONAL SERVICES	CONSTRUCTION
		2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Project surveyor responsible for overseeing office operations. Under a continuing surveying services contract with TBW, WSP performed a specific purpose location survey of multiple hydrological monitoring devices and related benchmarks relative to NAVD 88 and NGVD 29 vertical datums and NAD 83/11 horizontal datum in Hillsborough and Pasco Counties. Deliverables products included a (1) Surveyor's Report, (2) Monitoring Sites List spreadsheets, (3) miscellaneous benchmark list spreadsheets, (4) Benchmark Forms signed and sealed with published benchmark reference sheet, and (6) Color photos of each hydrological site and device.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Brandon Gaston	Surveying	13	5
15. FIRM NAME AND LOCATION (City and State)			
WSP (Orlando, Florida)			
16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
AS, Surveying Technology, Vincennes University Geomatics Program, University of Florida	N/A		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Level 3 Qualifications: ☑ no less than 10-15 Years of Experience ☑ Licensed PE/CFM			
Brandon has 12 years of experience in the surveying and mapping industry. He is from a family of surveyors and has served as a rodman, instrument man, party chief, and currently as a survey office technician at WSP. This experience, together with his continuing education in geomatics, has provided him the versatility to effectively serve in many roles for the surveying and mapping department. He is familiar with field operations, methodologies and instrumentation, data acquisition and processing workflows, and data processing hardware and software. He has extensive experience in the preparation of record plats, route surveys, and ALTA/NSPS Land Title Surveys.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	MCL Jasco, Inc., Natural Resources Conservation Service (NRCS) Spanish Trails, Arcadia, Florida	PROFESSIONAL SERVICES: 2023	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Survey technician responsible for the successful completion of surveying and mapping services. The Spanish Trail watershed landowner entered into an Easement Restoration Agreement with NRCS for this 3,462-acre property in Charlotte County, Florida. WSP prepared a Wetlands Reserve Plan of Operations (WRPO), including engineering plans and specifications for watershed rehabilitation and restoration of the property. The Spanish Trail watershed landowner entered into an Easement Restoration Agreement with NRCS for this 3,462-acre property in Charlotte County, Florida. WSP prepared a Wetlands Reserve Plan of Operations (WRPO), including engineering plans and specifications for watershed rehabilitation and restoration of the property.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Tampa Bay Water Monitor Well Locations, Tampa, Florida	PROFESSIONAL SERVICES: 2021	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Survey technician responsible for the successful completion of surveying and mapping services. Under a continuing surveying services contract with TBW, WSP performed a specific purpose location survey of multiple hydrological monitoring devices and related benchmarks relative to NAVD 88 and NGVD 29 vertical datums and NAD 83/11 horizontal datum in Hillsborough and Pasco Counties. Deliverables products included a (1) Surveyor's Report, (2) Monitoring Sites List spreadsheets, (3) miscellaneous benchmark list spreadsheets, (4) Benchmark Forms signed and sealed with published benchmark reference sheet, and (6) Color photos of each hydrological site and device.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Fish and Wildlife Conservation Commission (FWC)/Ducks Unlimited, MK Ranch Hydrological Assessment and Restoration, Gulf County, Florida	PROFESSIONAL SERVICES: 2021	CONSTRUCTION: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	☒☐ Check if project performed with current firm	
	Survey technician responsible for the successful completion of surveying and mapping services. MK Ranch comprises approximately 6,400 acres of historic tidal marsh in the lower Apalachicola River Basin that filters and stores water flowing from upland sites to the tributaries of Lake Wimico and Apalachicola Bay. WSP was retained to develop engineering plans to support the restoration plan. Surveying and mapping services included establishing a horizontal and vertical control network across the site to support design and construction, site topographic survey using fixed-wing LiDAR and supplemental ground survey, design survey of 3.2 miles of Sauls Creek Road, cross sections of 4.2 miles of interior berms and canals, location and design survey of drainage structures, design surveys of proposed ditch blocks, berms and access roads, and the location of soil borings.		

TAB 4
Proficiency with Similar Services/Projects

Proficiency with Similar Services/Projects

WSP's team is comprised of a group of uniquely qualified and experienced professionals who possess a comprehensive understanding of all the services that may be required in performing tasks related to the planning, designing, permitting, construction, improvement, or maintenance or roadway and drainage infrastructure and facilities management.

Cost Estimating

WSP utilizes a variety of cost estimating data sources to produce reasonable opinions of probable costs for projects. Typically, cost estimates are prepared during conceptual planning and at milestone completion stages during design. This approach provides a reasonable expectation of project costs throughout the project and avoids budget surprises at the completion of design.

Funding Research

The WSP project team has staff experienced in securing cooperative funding assistance as well as grant funds. Our team members have helped to secure billions of dollars in funding for our clients, leveraging our clients project budgets with funding from grant programs. Furthermore, we are experienced in the implementation and reporting requirements for community development block grants, section 319 grants, small City outreach program projects, small City road assistance program projects, Florida recreation development assistance program grants, local agency program grants, and others. We are prepared and positioned to assist the City in securing and implementing grant funds from outside sources.

Data Collection

WSP understands that prior to design, field data is needed, such as topographic, bathymetric and environmental surveys. The environmental surveys will include a wetland and benthic resource evaluation to document the presence of mangroves, seagrass, corals, sponges, or other threatened and endangered species with the project footprint.

Design

Cost effectiveness and constructability are two important considerations that result in the successful design of our projects. WSP professionals' ability to visualize the completed project and alternatives provides the foresight to efficiently coordinate design efforts with the project team. As the project moves from the conceptual stage into design and through the completion of construction documents, the project is routinely evaluated for value engineering opportunities.

Permitting

WSP will prepare and submit necessary permitting documents and supporting information using the 60% plan set. WSP will incorporate City comments on the draft permit packages and will then deliver the application documents to the regulatory agencies. WSP understands the importance of pre-application meetings with the agencies in order to formulate an application package that is complete. If any agency responds with comments, WSP will contact the agencies immediately upon receipt of the initial comments to ascertain the exact needs of the permit application reviewers.

Contract and Construction Management

WSP can provide daily construction oversight, or less-frequent on-site construction site visits as appropriate for each project. In either case, our project manager will be available to provide rapid responses to any questions that may arise. Should a WSP representative notice deviation from the design plans during such visits, WSP will notify the City project manager immediately via the telephone and then promptly in writing.

Inspections

We will develop and implement a construction quality assurance/quality control plan to document and verify that the construction activities meet the requirements of the project plans, permits, and specifications. Two important components of construction inspection are timely reporting of compliance testing results and accurate, systematic tracking of any deficiencies and subsequent repairs in the work. We have completed construction inspection on many major construction projects and have developed tracking systems and reporting protocols using a system of spreadsheets for maintaining field and laboratory test data and results.

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)	22. YEAR COMPLETED	
FWC Professional Services Contract, Statewide, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION (if Applicable): Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER: Florida Fish and Wildlife Conservation Commission	b. POINT OF CONTACT NAME: Katherine Burke, PE, PMP	c. POINT OF CONTACT TELEPHONE NUMBER: 850.487.0516
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*		

WSP was authorized by FWC to perform several hydrology assessment and mapping projects, which include the following.

Hilochee Wildlife Management Area Hydrologic and Habitat Restoration, Lake County, Florida

The Hilochee WMA includes up to five separate parcels totaling approximately 16,000 acres. This specific project area is in southern Lake County. The property is extensively disturbed with extensive ditching. The emphasis of the Florida Fish and Wildlife Commission was to develop and support restoration strategies and management activities that reestablish sheet flow and rainfall driven hydroperiods in order to improve the functions of both terrestrial and aquatic habitats within the Hilochee Wildlife Management Area.

The WSP project team developed a project that included 13 new water control structures to include maximum allowable depths and draw down rates for flow-ways and seasonal direction of flow, water regulation schedules and capacities that promote and protect wetland and flatwood communicates, annual variations in water depth and hydroperiods in response to climate inputs, enhance habitats for wildlife without adversely affecting adjacent landowners, identify structural capacity required to implement appropriate water regulation schedules for both proposed and existing infrastructure, and develop a monitoring plan to ensure hydrologic management objectives are met, including locations and types of equipment as well as suggested monitoring frequency.

Branan Field Wildlife and Environmental Area Hydrologic Assessment, Jacksonville, Florida

WSP was contracted to conduct a hydrological assessment of the Branan Field Wildlife and Environmental Area (BFWEA) to identify restoration needs, prioritize restoration options, and define potential onsite and offsite hydrological impacts with the intent to give the Florida Fish and Wildlife Conservation Commission (FWC) the information necessary to help restore and maintain the native conditions of the area using sound, scientific land management practices. This site is approximately 386 acres and is located in Duval and Clay Counties within the St. Johns River watershed. WSP utilized existing GIS layers and onsite surveys to determine the historical hydrology of BFWEA. Based on the data, WSP developed historical flow patterns.

WSP also conducted onsite surveys to determine the current hydrology and generated current flow patterns. WSP then created a recommended restoration plan to help re-establish the historical hydrology where feasible and to assist FWC in maintaining BFWEA. WSP proposed best management practices such as ditch fill, culverts and road stabilization, and low water crossings to help restore more historic drainage patterns throughout the site while maintaining access.

Suwannee Ridge Wildlife and Environmental Area Hydrologic Assessment, Jasper, Florida

WSP was contracted to conduct a hydrological assessment of the Suwannee Ridge Wildlife and Environmental Area (SRWEA) to identify restoration needs, prioritize restoration options, and define potential onsite and offsite hydrological impacts with the intent to give the Florida Fish and Wildlife Conservation Commission (FWC) the information necessary to help restore and maintain the native conditions of the area using sound, scientific land management practices. This site is approximately 1,428 acres and is located in Hamilton County. SRWEA is karst and is located near the confluence of the Upper Suwannee and the Alapaha Rivers. WSP utilized existing GIS layers and onsite surveys to determine the historical hydrology of SRWEA. Based on the data, WSP developed historical flow patterns.

WSP also conducted onsite surveys to determine the current hydrology and generated current flow patterns. WSP then created a recommended restoration plan to help re-establish the historical hydrology where feasible and to assist FWC in maintaining SRWEA. WSP proposed best management practices such as low water crossings, culverts and road stabilization, and rip rap buffers to reduce erosion and restore more historic flow patterns while maintaining access throughout the site.

Blue Spring Run Bank Stabilization, Orange City, Florida

Blue Spring State Park, located in Volusia County, is one of the most visited State Parks in Florida and contains the largest spring in the St. Johns River. The park is a designated manatee refuge and the winter home to a growing population of West Indian Manatees, Trichechus manatus, a federally endangered species. In recent years, more than 700 manatees have visited the spring each winter and up to 467 have been recorded in the spring at one time. The Blue Spring run is approximately 0.4 miles long and connects the warm water of Blue Spring to the St. Johns River. The spring run is sufficiently deep and wide enough to provide access for the manatees to the spring when the temperatures in the river drop to levels that can cause thermal shock.

The banks of the spring run are severely eroding in a number of areas. Large sections of the bank are falling into the run along with trees up to 40' tall, blocking the passage of wildlife and creating safety concerns for swimming visitors. The State Park staff has already addressed a number of large trees that have fallen into the run this year and is concerned that the banks will continue to erode if they are not stabilized. Continued erosion could restrict manatee access to the warm water refuge, threatening their safety during the winter months when water temperatures in the river drop below 68 degrees. In addition, the resulting sedimentation could cover existing SAV communities, reducing the food available to the manatees, as well as habitat for snails and freshwater fish.

WSP was tasked by Florida Fish and Wildlife Conservation Commission (FWC) with conducting an engineering study at Blue Spring Run and proposing stabilization methods that will balance habitat protection, manatee safety, and aesthetics. This project involves a field investigation of the site, working with FWC and State Park biologists identifying areas that require immediate attention, development of bank stabilization options, a preliminary design study, permitting services, cost estimating, and construction documents.

Design options that are currently being developed include a vegetated reinforced soil slope (VRSS) for the gravity failure zone (headspring) and sand fill fronted with a combination of toe wood and fieldstone for the cantilever failure zone (bottom quarter of the run on the right bank). These options take into account the range of water levels exhibited in the long-term hydrologic record to assign the appropriate materials and vegetation to the appropriate zone.

Fort White Wildlife and Environmental Area Hydrologic Assessment, Branford, Florida

WSP was contracted to conduct a hydrological assessment of the Fort White Wildlife and Environmental Area (FWWEA) to identify restoration needs, prioritize restoration options, and define potential onsite and offsite hydrological impacts with the intent to give the Florida Fish and Wildlife Conservation Commission (FWC) the information necessary to help restore and maintain the native conditions of the area using sound, scientific land management practices. This site is approximately 1,610 acres and is located in Gilchrist County, at the confluence of the Santa Fe and Ichetucknee Rivers. WSP utilized existing GIS layers and onsite surveys to determine the historical hydrology of FWWEA. Based on the data, WSP developed historical flow patterns.

WSP also conducted onsite surveys to determine the current hydrology and generated current flow patterns. WSP then created a recommended restoration plan to help re-establish the historical hydrology and reduce erosion where feasible and to assist FWC in maintaining FWWEA. WSP proposed best management practices such as low water crossings, culverts and road stabilization, and pavement to reduce erosion while maintaining access throughout the site and restoring more historic flow patterns.

Monitoring of Aquatic Plant Harvesting on Davis Lake, Inverness, Florida

Florida Fish and Wildlife Conservation Commission (FWC) conducted aquatic plant harvesting on Davis Lake, located in Inverness, Citrus County, Florida. The purpose of the vegetation harvesting was to re-connect a native, herbaceous marsh located in the western area of Davis Lake. The rise and fall of water levels in the lake over many years allowed woody vegetation (Carolina willow and red maple) to encroach on the lake edge and prevented natural flushing of the adjacent native marsh. FWC hired a contractor to conduct the vegetation harvesting/removal, and payment to the contractor (by FWC) was based on the acres of vegetation cleared from Davis Lake. Due to the high cost of vegetation harvesting, it was extremely important to FWC to obtain accurate data for the area of vegetation cleared.

A WSP professional biologist participated in site visits every two weeks to measure the area of vegetation removed during each field event. WSP used a sub-meter accurate GPS unit to measure the area of vegetation cleared. To ensure the accuracy of the data recorded by the GPS unit, a known survey marker (monument) located near Davis Lake was identified prior to the first field event. WSP professional land surveyors used survey equipment to determine the precise latitude and longitude for the monument marker. As a quality control check, prior to and after each field event, the WSP biologist would use the sub-meter accurate GPS unit to measure the latitude and longitude at the monument location, and compare those values to that obtained by the professional land surveyors. GIS personnel conducted the post-processing of the data upon return from the field, used GIS to determine the acreage of vegetation removed, and created a figure depicting this information. The client requested quick turnaround, and the data and figure was provided by WSP within one to two days of completion of each field event.

Lake Rowell Aquatic Enhancement, Bradford County, Florida

WSP provided engineering design support for the removal of approximately 1.5 million cubic yards of sediment to restore the aquatic habitat of Lake Rowell on behalf of FWC. The lake's popular fishery and avifaunal habitats have been adversely affected by artificially accumulated fibrous organic sediments and muck. The sediments, derived largely from previous human-induced nutrient sources, have created excessive internal nutrient cycling that supports nuisance algal blooms and dense rafts of nuisance exotic vegetation (hydrilla) that limit native vegetation growth. The sediment condition of the lake is now affecting Lake Sampson, located immediately downstream, causing detrimental grass formation. WSP project tasks included:

- Preliminary dredge designed to demonstrate a few alternatives most likely to meet the objectives of the project and meet permitting requirements
- Data collection and review including reports, maps, aerial photographs, design plans, etc.
- Sediment assessment, characterization, and testing to facilitate cost-effective restoration design
- Determination of sediment volume increase and the settling and dewatering characteristics of the sediment
- Assisted FWC with selection of dredge material disposal site alternatives based on environmental impacts, groundwater, wetlands, proximity to public resources, safety, site access, pipeline routes to dredge site, ease of construction, costs, and schedule
- Cost estimates for three alternatives
- Preliminary Basis of Design booklet
- Preliminary project plans

Preliminary regulatory consultation was initiated as part of this project. Alternative containment site evaluations included outreach to a variety of landholders, and initiating dialogue with property owners and stakeholders on the potential beneficial use of sediment specific to each property.

Suwannee Lake Fish Management Restoration Project, Suwannee County, Florida

This project included the engineering design and permitting for an approximately 63- acre lake in Suwannee County, Florida. The design phase was broken into the following stages: (1) dewatering plan to remove approximately 130 million gallons of water from the lake, using a cofferdam and pumps, (2) excavating approximately 50,000 cubic yards of organic sediments using standard earth moving machines such as front end loaders and excavators, and (3) recontouring the lake bed, increasing habitat complexity by installing a variety of habitat features and improving public access facilities.

The permitting phase included obtaining an ERP from SRWMD and a Nationwide Permit from USACE. The project entailed holding various permitting and design meetings.

WSP also performed services for the infrastructure components at Suwannee Lake including parking and roadway upgrades. We also provided public access pier stability assessments. The objectives of the project were to determine the structural stability of the two onsite piers and design upgrades for the entrance roadway and parking areas. WSP evaluated the existing roadway and determined new grading elevations, associated culverts, and surface options for replacement and designed a boat launch, turnaround, and parking area to improve public access.

Blackwater Fisheries Research and Development Center Reservoir and Pond Water Lines Renovation, Santa Rosa County, Florida

This project included the preparation of engineering drawings, technical specifications and an opinion of probable construction costs and obtained permits for construction. The project design involved rehabilitation of the existing reservoir and replacement of water supply lines from wells to the reservoir and from the reservoir to six fish production ponds.

WSP conducted a field assessment, obtained a special-purpose survey through a subcontractor, and prepared engineering drawings, permitting documents, an opinion of probable construction cost, and technical specifications. The project was engineered to provide a cost-effective solution for the Florida Fish and Wildlife Conservation Commission. A component of the value engineering of the project was to abandon the existing asbestos cement piping in place to significantly reduce the potential demolition costs. The project also included placing a geomembrane liner within the existing water supply reservoir to reduce water loss and make the earthen embankments durable. The project was successfully bid and the project construction has been completed.

Estuarine Habitat Enhancement at Florida State University Coastal and Marine Laboratory, Franklin County, Florida

The Florida Fish and Wildlife Conservation Commission tasked WSP with an assignment to develop a plan to enhance estuarine habitat, increase habitat for threatened and endangered species, and preserve and protect the shoreline and marine/estuarine environment. The project is located at the Florida State University Coastal and Marine Laboratory. This coastal resource resiliency project proposes to enhance approximately 1 acre of saltmarsh, 0.75 acre of oyster reef, and 2.5 acres of waterbird nesting habitat. WSP's tasks include field surveys, preparation of design drawings, technical specifications, and an opinion of probable construction cost, and permitting.

WSP collected essential design information on the project area through a field review effort. The field review consisted of reconnaissance with photographs, directing a surveying team to collect elevation, habitat, and substrate data at select locations within the project area, and collecting samples of legacy dredge spoil material to determine suitability for reuse in salt marsh enhancement. Maps of existing bird nesting, oyster reef, and sea grasses within the project area were updated based on the field review.

WSP worked collaboratively with Fish and Wildlife Conservation Commission to develop a design approach for proposed intertidal oyster reefs along an existing navigational channel, low-profile oyster shell substrate mats, salt marsh enhancement, and improvement of bird nesting habitat. The salt marsh enhancement design includes removal of existing materials unsuitable for marsh grass growth, reuse of legacy dredge spoil material in the marine environment to expand salt marsh, and placement of oyster shell bag reefs around the enhancement area to promote marsh expansion. Design of the bird nesting habitat improvement included placement of preferred bird nesting material over a geotextile layer.

Watermelon Pond Wildlife Environmental Area

WSP provided a hydrology assessment and produced a conceptual hydrology restoration plan for the Watermelon Pond Wildlife Environmental Area (WEA) located within Alachua County, Florida. The total area of the Watermelon Pond WEA covers approximately 1,287 acres. The Watermelon Pond WEA was purchased in 2008 as a mitigation park for gopher tortoises. The area supports a variety of ecologically sensitive natural communities including: basin marsh, depression marsh, xeric hammock, sandhill and sinkhole. In order to assess the historical and current drainage patterns and produce a conceptual hydrology restoration plan, the following tasks were performed:

Historical aerial photography from 1937 and 1963 were scanned and georeferenced

- Historical drainage patterns and basins were assessed using 1968 topographic maps
- Current drainage patterns and basins were assessed using 2001 Alachua County Digital Elevation Model
- WSP personnel conducted on-site surveys to confirm the location and status of existing structures, defined current flow directions and determined restoration alternative areas
- Shape files with metadata were produced for the Watermelon Pond WEA including: current and historic drainage flows, current basin and historic delineation and Alternative Restorations I, II and III

The objectives of this hydrology assessment and conceptual hydrology restoration plan were to provide site-specific information regarding the historical drainage pathways, current drainage divide locations, current natural drainage pathways, existing manmade drainage structures, and propose changes to the existing drainage structures.

Bell Ridge Wildlife Environmental Area

WSP performed a hydrology assessment and produced a conceptual hydrology restoration plan for the Bell Ridge Longleaf Wildlife and Environmental Area (WEA) located within Gilchrist County, Florida. The Bell Ridge Longleaf WEA covers approximately 720 acres. The Bell Ridge Longleaf WEA was purchased in 2007 as a mitigation park for gopher tortoises. The area is primarily an old-growth longleaf-pine sandhill forest ecosystem and is home to species such as gopher tortoise, Sherman's fox squirrel, Eastern indigo snake, and southeastern American kestrel. In order to assess the historical and current drainage patterns and produce a conceptual hydrology restoration plan, the following tasks were performed:

- Historical aerial photography from 1957 was scanned and georeferenced
- Current drainage patterns and basins were assessed using 2009 FWC Digital Elevation Model
- WSP personnel conducted on-site surveys to confirm the location and status of existing structures, defined current flow directions, and determined restoration alternative areas
- Shape files with metadata were produced for the Bell Ridge Longleaf WEA including: current drainage flows, current basin delineation and conceptual hydrologic modification plan.

The objectives of this hydrology assessment and conceptual hydrology restoration plan were to provide site-specific information regarding the historical drainage pathways, current drainage divide locations, current natural drainage pathways, existing manmade drainage structures, and to propose changes to the existing drainage structures.

Orange Creek Basin Mapping

WSP prepared littoral vegetation maps in GIS shape file format to assist biologists in managing aquatic habitat on Orange Lake (13,400 acres), Lochloosa Lake (9,000 acres), and Newnans Lake (6,200 acres) in Alachua County, Florida. WSP acquired aerial imagery via subcontract. WSP and client jointly conducted fieldwork to verify (ground truth) photographic signatures in the aerial imagery. WSP scientists interpreted aerial imagery to classify aquatic vegetation according to the Florida Land Use, Cover, and Forms Classification System. WSP used mirror stereoscopes and hard copy aerial imagery prints flown with 60% stereo overlap in order to view the project area in 3D. This method allowed photo interpreters to see the stratification of heights between
vegetation communities ensuring a more accurate final deliverable. Vegetation communities were delineated on the hard copy imagery, and then digitized onto the digital orthorectified imagery in ArcGIS 10. The minimum mapping unit was 0.25 acres and all areas of this size or greater that exhibited a distinct signature on the photography were delineated. FWC verified that a 90% classification accuracy was achieved.

After each polygon was digitized into the shape file, the photo interpreter identified the FLUCCS code, common name, coverage modifier and calculated the acreage of each polygon Photo interpreters used field collected data, soils data and GPS points to further assist in the classification process.

Parker Slough Conveyance Improvement, Osceola County, Florida

This project involved design of conveyance improvements to Parker Slough between Structure G-113, located west of Lake Marian, and Lake Jackson. The goal of this project is to design the dredge of the main channel through Parker Slough from Structure G-113 to Lake Jackson which will provide a conveyance capacity that matches the cross section of the channel located upstream of Structure G-113. WSP provided services consisting of a field investigation, conducting a topographic survey along the existing main channel, review of an existing HEC-RAS model to verify applicability to existing conditions, design of proposed conveyance channel improvements, support for FWC in for a joint application for environmental resource permit consisting of development of the design document with hydrologic information and modeling, existing reports, and addressing agency comments. WSP's tasks also included production of construction plans, technical specifications, and an opinion of probable construction costs.

William J. Rish Park Pond Renovation Project, Gulf County, Florida

William J. Rish Park is located in the Florida Panhandle on St. Joseph Peninsula off of Cape San Blas Road (30E). The park is approximately 100 acres and stretches from the Gulf of Mexico to St. Joe Bay. It is open to the public, however all of the features in the park cater to persons with disabilities. Persons with disabilities and their families or care-givers have the opportunity to rent cottages or dormitories in the facility at a minimal expense. This park offers beachside access, trails, dining hall and a handicap accessible pool all of which offer a unique and one of a kind experience for persons with disabilities not found anywhere else in the state of Florida.

The freshwater pond at Rish Park is approximately 20 feet wide and 1000 feet in length, with the newly constructed boardwalk going across the pond. The current condition of the freshwater pond on the park prevents any public angling access as muck and dense cattail tussock are having detrimental effects on fish populations, and prevent anglers from being able to cast into the pond. Aquatic Habitat Restoration and Enhancement (AHRE)'s regional staff are proposing a muck and tussock removal project on the Rish Park freshwater pond to restore the fishery and provide access to the public, with a special emphasis on persons with disabilities.

WSP has conducted preliminary design studies to assess the physical variables of the proposed site such as surveys, maps, soils, and site access and environmental concerns; developed a design solution for pond renovation including muck and tussock removal with on-site disposal; developed plans, technical specifications, and cost estimates; and prepared applications to obtain permits from permitting agencies having jurisdiction over the project area.

Project Cost:

$2 million

Staff:

David Butcher, PE, LEED AP, Charlene Stroehlen, PE, Mark Leon, PE, Gregory Corning, PE, Dustin Atwater, GISP, Charles Gardiner, PLS, CFedS, Max Ramos, PSM, Timothy Howard, EI, and Tiffany Davies, PE.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
1. FIRM NAME		2. FIRM LOCATION (City and State)	3. ROLE
a.	WSP USA Environment & Infrastructure Inc.	Lakeland, Tampa, Altamonte Springs, Miami Lakes, Newberry, Tallahassee, Jacksonville, and Pensacola, Florida	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)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
SWFWMD Professional Consulting Services, Districtwide, Florida	Ongoing	Ongoing

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Southwest Florida Water Management District	James Fine	352-796-7211 ext. 4213

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

WSP was selected by SWFWMD to provide Professional Consulting Services in seven service areas for projects throughout the District. The WSP team has supported the overall mission of SWFWMD for nearly 30 years in the areas of lake restoration, dredging and sediment removal, SWIM project implementation, stormwater retrofit, operations engineering support, dam assessments, alternative water supply assessment, dam break analysis and EAP development, MFL support, ecological restoration, surveying, spring restoration, and watershed management planning.

Professional Services Areas:

- Water Conveyance Systems: Design, Permitting, and Construction Inspection
- Construction Inspection and Infrastructure Assessment
- Design, Permitting, and Construction Inspection of Natural Systems
- Environmental Monitoring and Assessments of Natural Systems
- Groundwater Basin Monitoring, Modeling, and Planning
- Surveying and Mapping
- Watershed Management Program: Watershed Evaluation, Modeling, and Planning

WSP has conducted several projects under this master agreement including:

- Avon Park WMP
- Chassahowitzka Headspring Restoration
- Colt Creek State Park Hydrologic Restoration
- FEMA Flood Mapping Updates Peer Review
- Lake Hancock Lake Level Modification Analysis and Mitigation Projects and Berm Modifications
- Lake Wales Ridge Stormwater BMP Evaluation and Implementation
- NAVD88 Migration – North District Geodetic Control Height Modernization Survey and Hydrological Data Collection Sites Calibration
- Polk City and Horse Creek WMPs
- Ridge Lakes BMP Analysis and Implementation
- Sarasota County Model Updates
- Sebring WMP
- Shell Creek Vegetative Monitoring in Support of MFL Development
- Coastal Rivers Invertebrate Analysis
- Upper Peace River Low-Flow Protection Design
- Hydrologic Restoration of District-Owned Lands: Hampton Tract
- Balm Boyette - Stallion Hammock Habitat Restoration
- Lake Isis/Lake Tulane Stormwater Retrofit
- Dam Design and Operations Management

Avon Park WMP

WSP was directed to develop a detailed Stormwater Master Plan for the City of Avon Park for compliance with state and federal legislative mandates such as National Pollutant Discharge Elimination Systems and Total Maximum Daily Loads. The plan was developed based on SWFWMD's guidelines and specifications for watershed management plans. These guidelines require rigorous quality control and a high degree of correspondence between the GIS database/mapping element and the associated hydrologic model parameterization and connectivity.

Chassahowitzka Headspring Restoration

The Chassahowitzka Headspring Restoration project consisted of a proposed dredge plan adjacent to the existing boat ramp for the restoration of the Chassahowitzka Headspring, which forms the headwaters of the Chassahowitzka River. WSP provided, permitting, design, and construction services.

Colt Creek State Park Hydrologic Restoration

The Colt Creek State Park Hydrologic Restoration project consisted of the assessment, design, and environmental permitting in an effort to restore hydrologic and natural systems within the Colt Creek State Park area to a more historic condition. The District hired WSP to conduct these services, including a hydrologic model analysis to determine baseline hydrologic conditions as well as both on-site and off-site effects of proposed restoration alternatives.

FEMA Flood Mapping Updates Peer Review

The FEMA Flood Mapping Updates Peer Review project included technical peer review of hydrologic, hydraulic, and percolation models for multiple thousand-acre watersheds. Work included watershed ICPR model review including hydrologic and hydraulic parameterization, model calibration, and revised FEMA floodplain delineation. Review also included geodatabase setup. Multiple rounds of comment and responses have usually been necessary. As part of the work, WSP also participated in public meetings that are held in conjunction with the FEMA updates and reviews the consultant responses and model updates to ensure the appropriate plan of action is taken. Upon completion of review, WSP prepared a final report that details the extent of the review.

Lake Hancock Lake Level Modification Analysis and Mitigation Projects and Berm Modifications

The objective of the Lake Hancock project is to enhance dry weather low flows in the Peace River to satisfy approximately 50 percent of the minimum flows and levels (MFLs). This 4,500-acre lake project not only forms a critical link in improving the MFLs of the Upper Peace River, but also provides for the hydrological restoration of more than 1,000 acres of the lacustrine wetlands. Our services included the preparation of a Conceptual Environmental Resource Permit (CERP) package for lake level modification, along with analysis, design, and permitting of various ongoing mitigation projects to offset impacts from increased lake levels. As part of the Lake Hancock Lake Level Modification Project (LLMP), an area of streams, lakes, and former mine pits along the northeast side of Lake Hancock required improvements to embankments and water control structures in order meet LLMP design parameters. WSP undertook visual inspection surveys of the earthen embankments and culverts and completed ground investigations and a topographical survey to identify the existing site conditions. Based on those findings, a variety of embankment repairs, erosion protection measures, and culvert upgrades were designed to meet the LLMP requirements. Detailed construction plans and specifications were developed for each embankment section and culvert crossing. Filter point mattresses, articulated block revetments, and rip rap erosion protection systems were considered in the embankment upgrades. Public meetings were held throughout the project to keep the public informed of the project.

Lake Wales Ridge Stormwater BMP Evaluation and Implementation

The Lake Wales Ridge Stormwater BMP Evaluation and Implementation project focused on development of water quality BMP's for (non-impaired) lakes located within the Lake Wales Ridge threatened by stormwater non-point source pollution. Four projects have been taken from concept through design, permitting, construction management, and asbuilt completion. All projects were implemented in either tight government rights-of-way or via easements through cooperative public/private partnership arrangements. Utility accommodation was required for all of these infill projects.

NAVD88 Migration – North District Geodetic Control Height Modernization Survey and Hydrological Data Collection Sites Calibration

Survey Tasks for Height Modernization, Geodetic Control Densification, covering entire North District (9+ counties, more than 2,000 square miles in area). Performed reconnaissance and recovery of District Hydrologic Data Collection Sites and existing National Geodetic Survey (NGS) Horizontal & Vertical Control Stations. Tasks included: site selection and control monument construction in accordance with SWFWMD specifications; GPS observations on all newly-constructed control stations and existing control stations recovered to establish 3D static vector network to millimeter precision in all components. Provided supplemental conventional leveling (in accordance with NGS Height Modernization Procedures) as important QA/QC of newly-established values. Evaluation of Least Squares adjustment of minimally-constrained ("free adjustment") vector network and subsequent Final Constrained ("Fixed Adjustment") vector network to establish final 3D values. Preparation of all Final Deliverables (as specified by SWFWMD) including, but not limited to: Certified Survey Drawing, Surveyor's Project Report,

detailed Monthly Project Reports, original fi eld books, and Certified Bench Mark Reports which include digital on-site photography. Performed calibration operations to transfer NAVD1988 elevations to individual measuring points as specified by SWFWMD for each kind of device.

Polk City and Horse Creek WMPs

SWFWMD contracted WSP to complete the watershed management plans for the Horse Creek and Polk City Watersheds, which involved field investigations, updating survey data, adding ERP data, and calibration and verification of the models.

Sarasota County Model Updates

The Sarasota County Model Updates involved updating existing watershed evaluation data and models for the Island of Venice, Alligator Creek, and Robert's Bay Watersheds, to use for detailed FEMA flood mapping updates for Sarasota County.

Sebring WMP

The City of Sebring WMP involved development of a comprehensive WMP and coordination with the City to develop a stormwater utility structure to help fund a stormwater program and to comply with state and federal mandates.

Shell Creek Vegetative Monitoring in Support of MFL Development

To characterize wetlands along Shell Creek, WSP wetland scientists collected data from vegetation, soils, and hydrologic indicators at more than 60 sample points at eight transects. Based on this data, WSP identified various ecological community breaks, such as the jurisdictional break between wetlands and uplands and breaks between different wetland community types. WSP was well-suited for characterizing wetland communities along the creek due to our understanding of the fluvial geomorphology of Florida streams.

Coastal Rivers Invertebrate Analysis

WSP evaluated the macroinvertebrate communities within the Homossassa, Chassahowitzka, and Weeki Wachee Rivers. The project included development of a detailed sampling design, including final site selection. Physiochemical and biological sampling and in-house taxonomic identification and statistical analysis was conducted to characterize the macroinvertebrate community by species and habitat.

Upper Peace River Low-Flow Protection Design

WSP was selected to evaluate and design low-flow protection devices to help restore perennial flow to the Upper Peace River. This part of the river completely dries out, sometime for weeks at a time, from artificial flow losses through karst openings induced by regional groundwater withdrawals. WSP conducted a thorough historical evaluation of this threemile stretch of the river to fully understand all of the impacts to the system. Field investigations involved surveys of the stream and floodplain geomorphology, remote sensing and drilling of Karst features, field and lab sediment testing, observation and survey of floodplain hydrology and open channel hydraulics indicators, and observations of vegetation as an impact indicator. WSP recommended a holistic approach to stabilizing the system to optimize restoration benefits, emphasizing the use of natural materials that work consistent with riverine dynamics.

Hydrologic Restoration of District-Owned Lands: Hampton Tract

WSP assessed historic, existing, and proposed site conditions using the XP-SWMM 1D/2D model and conducted an alternatives analysis of various ditch removal/blocking and surface water diversion scenarios with regard to construction costs, ecological benefits, and flood hazards to off-site infrastructure. The final project design, which was implemented in February 2012, restores the hydrology and fire regimes in more than 1,200 acres of wetlands on the property including cypress strands and domes, hardwood swamps, wet prairies, and freshwater marshes.

Balm Boyette - Stallion Hammock Habitat Restoration

WSP developed a restoration plan to improve flow patterns to stabilize connections between former phosphate mined lands. The project includes construction of wetlands and a stream section through the site to improve water quality and restore natural wetland and stream function to the project area. The project was partially funded through a settlement associated with the former Mulberry Phosphates fertilizer plant and is located on property acquired by Hillsborough County through the Environmental Lands Acquisition and Protection Program.

Lake Isis/Lake Tulane Stormwater Retrofit

SWFWMD selected WSP to design stormwater retrofit projects for eight outfall locations into Lake Isis and Lake Tulane. Land-use-based Event Mean Concentration pollutant loadings were calculated. Directly connected imperviousness was reviewed carefully due to the preponderance of Type A hydrologic soil group soils and the associated pollutant mass load that is generated from these areas. Historical rainfall data was used to develop incremental rainfall event probabilities and the use of this data with directly connected impervious area provided rainfall runoff volumes of much higher accuracy than from other methods. Design services included permitting, stormwater design, utility accommodation, and construction observation.

Dam Design and Operations Management

WSP provided professional engineering services to SWFWMD pertaining to the geotechnical inspection, evaluation, and restoration of multiple embankments, structures, and conveyances. Task assignments include the L-112 Tampa Bypass Canal, the Potts Preserve Structure 352 stormwater management berm, the Medard Reservoir, the P-7 Lake Fannie Berm, and the P-5 structure.

Project Cost:

$5 million

Staff:

Christine Mehle, PE, CFM, ENV SP, David Butcher, PE, LEED AP, Charlene Stroehlen, PE, R. Michael Jones, PLS, CFedS, Timothy Kelly, PE, CPSWQ, CPESC, Charles Gardiner, PLS, CFedS, Timothy Howard, Max Ramos, PSM, Gregory Corning, PE, Dustin Atwater, GISP, Tiffany Davies, PE, and Shannon McMorrow, PWS.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	1. FIRM NAME	2. FIRM LOCATION (City and State)	3. ROLE
a.	WSP USA Environment & Infrastructure Inc.	Lakeland, Tampa, Newberry, Miami Lakes, and Altamonte Springs, Florida	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)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
SRWMD Comprehensive Services, Districtwide, Florida	<Insert text>	<Insert text>

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Suwannee River Water Management District	John Good, PE	386-362-1001

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

WSP has provided comprehensive environmental services to SRWMD for more than 10 years. Some of our services to date include the following:

Edwards Bottomlands/Alligator Creek Wetlands and Stream Restoration

The Suwannee River Water Management District requested services from WSP to provide recommendations for managing excessive sediments in Alligator Creek, an eroding urban canal coursing through the town of Starke, Florida. The excessive sediment creates partial obstructions of bridge openings, causes benthic habitat smothering in the canal's receiving waterbody, Lake Rowell, and creates water quality problems for the canal and lake. WSP's vision was to demonstrate the advantages of natural channel design and soil bioengineering as tools for sediment management versus hard-armouring, not only based on environmental cost-benefit advantages, but also as a means to inspire community support and recruit additional funding partners. Such funding partners emerged and subsequently enabled further expansions of the scope and scale of the project. The Florida Fish and Wildlife Commission provided funding to improve fisheries habitat as part of their Aquatic Habitat Restoration/Enhancement (AHRES) program. The Florida Department of Transportation funded the wetland restoration component as a mitigation project to offset regional impacts. The City of Starke provided the project property to enhance their community's recreation and native greenspace adjacent to a public ball field. The District then purchased adjacent property to expand public ownership and management of the riparian corridor's nuisance species.

WSP worked for the District during each growth phase. We initiated the project by conducting a watershed-scale alternatives assessment, including field evaluations of erosion sources and a review of records for local and regional scale topography, drainage, flood studies, and level of service. WSP evaluated potential locations and design solutions for managing the sediments, including public outreach with multiple stakeholders, landowners, and potential cofunders. The Edwards Bottomlands wetland and stream restoration project was selected as the preferred alternative based on its accessibility, cost, potential treatment benefits, potential to inspire co-funding sources, and the scope and scale of its biological and physical characteristics.

The design includes construction of a meandering bankfull stream channel through created lower and upper swamp terraces, thus forming a multi-stage channel. It restores the exchange of water and sediment between the open channel and the floodplain. This improves the water quality reaching Lake Rowell and enhances the aquatic habitat functions of Alligator Creek by creating a new stream channel with greater instream and native bottomland swamp habitat than the existing eroding canal and spoil banks it replaces.

The hydrology of the preliminary design was evaluated by re-purposing a watershed model WSP originally developed for the 25-square-mile Alligator Creek watershed to support FEMA dFIRM mapping. A separate 2-dimensional hydrodynamic model was run, using output from the watershed model to assess velocity and shear stress vectors in the designed floodplain and bankfull channel. This enabled validation of the stability of the proposed system, its sediment trapping capacity, and areas requiring specific countermeasures to protect critical infrastructure.

The technical components of the project included natural channel design using Dr. Kiefer's Hydrobiogeomorphic (HBG) stream system classification and restoration protocols. Also included were soil bioengineering treatments on the streambanks and a variety of Rosgen in-stream channel treatments including toe wood, log cross vanes, and j-hooks. The project was designed to harness natural fluvial geomorphic processes to trap sediment from upstream, forming point bars

and alluvial ridges. The floodplain terraces were designed to receive routine vertical accretions of fine sediments during wet season flood pulses, reducing downstream turbidity. The project dissipates energy, slowing flow received from a heavily developed cityscape. The flood terraces were designed to support two native wetland forest types, cypress and mixed hardwood bottomlands. Rip-rap channel lining and end-treatments were designed at a small conveyance contraction required to accommodate the City's wastewater main and to build the project without disrupting its service.

WSP developed a pre- and post-construction sediment transport and hydrology monitoring program, and has completed the pre-construction sampling. Our team supported permitting submittals with USACE and state agencies, in coordination with another firm leading FDOT mitigation permitting efforts. WSP provided an engineer's estimate of probable cost for budgeting. We worked closely with District procurement managers to develop innovative selection criteria based on an index of qualifications, unit prices, and base bid price to rank contractors. This selection process assured procurement of a highly qualified builder, and enabled
subsequent negotiation of value-added price reductions with the highest ranked respondent. The bid process facilitated an implementation strategy to meet cofunding requirements and assured timely and low-risk construction.

WSP is currently providing contractor guidance, engineering inspection services, and tours of the ongoing construction for stakeholders at this regionally important demonstration project. Project will result in 10 acres of wetland restoration and more than 3,100 linear feet of urban stream restoration by May 2018. The first two of four construction phases are complete as of April 2018. The project is expected to inspire related projects in the Alligator Creek watershed.

Middle Suwannee River MFL Development

Florida Statutes (F.S.), Chapter 373, requires Florida's water management districts to establish Minimum Flows and Level (MFLs) for water courses, waterbodies, and aquifers that represent the limit at which further withdrawals would be significantly harmful to the water resources or ecology of an area. MFLs typically define the minimum frequencies of high, intermediate, and low water events (defines by magnitude and duration hydrologic components). These environmentally protective hydrologic regimes prevent significant harm to water resources or the ecology of the area and identify levels and/or flows above which water may be available for use. The determinations of MFLs consider nonconsumptive uses of water including navigation, recreation, fish and wildlife habitat and other water resources. MFLs take into account the ability of wetlands and aquatic communities to adjust to changes in the frequencies of hydrologic events. Such changes to the frequencies of hydrologic events do not always cause changes to the ecology or the water resources of a system. However when withdrawals shift the hydrologic conditions below those defined by an MFL, significant harm may occur.

Suwannee River Water Management District (SRWMD) hired WSP to assist with developing MFLs for the Middle Suwannee River, an 80-mile segment of this large, iconic Florida river. The scope of the project is fully inter-disciplinary including hydrology, water resources, geology, in-stream biology, soils, and floodplain community assessments. Because of the direct riverine and groundwater interactions in a karst terrain, this project will also establish MFLs for more than 15 springs.

Various phases of work completed for this project include:

- Floodplain and springs hydrologic monitoring – WSP planned and installed a network of over 30 shallow wells and staff gages equipped with continuously recording data loggers throughout the Middle Suwannee River floodplain and various associated spring runs. Hydrologic monitoring was conducted monthly and consisted of data logger downloads, manual water level measurements, and flow measurements using an acoustic Doppler velocimeter. These data were used to determine the frequency and duration of inundation of the various ecological communities observed throughout the study area.
- Floodplain and springs vegetative, soils, and topographic assessments – More than 30 transects were established throughout the Middle Suwannee River study area for the collection of quantitative vegetative, soils, and topographic data. Ecological community breaks were established along each transect. Within each community type (i.e. deep swamps, low hardwood bottomlands, high hardwood bottomlands, and upland communities), vegetative species in each strata (canopy, subcanopy, groundcover) were identified and measured, soil cores were dug and described, and elevations were surveyed. These data will be used to determine the association between river level and community type in order to set MFLs appropriate for maintaining the Suwannee's various ecological community types.
- In-stream springs biological monitoring - In-stream biological monitoring was conducted at multiple locations in six spring runs within the Middle Suwannee study area. Spring run biological monitoring included sampling of submerged aquatic vegetation (SAV), macroalgae, and epiphytic communities using qualitative methods such as spatial mapping (SAV bed and algal mat delineations) and areal coverage surveys. Epiphytic and benthic macroalgal samples were collected and then identified in the laboratory by WSP taxonomic staff. In-stream hydrologic and in-situ water chemistry measurements were also conducted during biological monitoring. Water chemistry measurements (dissolved oxygen (DO), pH, specific conductivity, turbidity, and water temperature) were taken using in-situ water quality multiparameter sondes (YSI 556). Instruments used to collect physicochemical data were regularly maintained and calibrated in accordance with FDEP SOPs FT1000, FS1000, FD1000, FT1100 through FT 1600 and FT1800.

- In-stream habitat mapping for Physical Habitat Simulation modeling (PHABSIM) – WSP conducted field tasks including detailed in-stream habitat mapping, velocity profile measurements using a boat-mounted acoustic Doppler current profiler (ADCP), and water slope surveying (using a total station) at various run/riffle/pool transects located at five distinct locations along the Middle Suwannee River during three different flow events (high, medium, low). These data will be used in conjunction with appropriate habitat suitability curves to run PHABSIM to determine thresholds for various fish species and ultimately to determine an appropriate fish passage MFL.
- Hydrologic assessment – WSP is currently utilizing an existing HEC-RAS hydraulic model to establish a baseline hydrologic condition from which to assess MFL recommendations. A double-mass analysis and other suitable trend tests of historical streamflow and rainfall are being used to characterize the watershed yield.
- Data management – The various datasets collected throughout the project (hydrologic, vegetative, topographic, soils, etc.) are maintained within individual databases. Proper data management is important for efficiently running statistical analyses and for delivering data to the client.

Future phases of work will culminate in the MFL development for the Middle Suwannee River and for the priority springs within this river segment.

FEMA Risk Mapping for Lower Suwannee, Upper Suwannee, and Santa Fe Watersheds

The Suwannee River Water Management District (SRWMD), one of five Districts in the State of Florida, is the smallest, most rural District in the State. Situated along the Gulf of Mexico, SRWMD is prone to tropical activity, resulting in a number of flood risk concerns caused by the interaction of coastal flooding with flooding from its numerous creeks, rivers, closed basins, and sinkholes. Given their proclivity for flooding of all types, in 2009 the SRWMD selected WSP for an indefinite delivery, indefinite quantity contract to support their new partnership with the Federal Emergency Management Agency (FEMA) called Risk MAP (Mapping, Assessment, and Planning).

The vision of Risk MAP at SRWMD is to empower communities to take ownership of their flood risk. WSP helps SRWMD achieve this vision by ensuring that quality flood risk data is being produced, local officials are aware of the flood risk affecting their community, and communities are taking appropriate actions to reduce their own flood risk. Through this contract, WSP has performed the following flood risk-related consulting services:

- Interconnected Pond Routing (ICPR) modeling more than 200 individual closed basins in Suwannee, Madison, Lafayette, Dixie, Union, Columbia, Bradford, and Alachua Counties
- Redelineation of 40-plus miles of special flood hazard areas on new, LiDAR-based topography, including 21 miles of the Suwannee River
- Preparation of more than 125 FEMA-standard Flood Insurance Rate Maps
- Production of flood risk identification tools, such as floodplain mapping, depth grids, and percent-annual chance grids, using a suite of WSP-proprietary tools
- Identification of areas of mitigation interest and potential flood risk reduction measures throughout the District
- Special assistance to Bradford County with the development of flood mitigation action items following the catastrophic flooding resulting from Tropical Storm Debby in June 2012

As a part of this project, WSP engages community leaders in SRWMD projects through their entire duration, thereby facilitating information sharing and a continuing dialogue between SRWMD and the community. This continuous involvement ensures that a measurable increase in the public's awareness and understanding of flood risk is achieved, and that increased awareness results in a measurable reduction of current or future flood vulnerability in Risk MAP watersheds. This community outreach is accomplished through scoping meetings, discovery meetings, flood risk open houses, and flood resilience meetings, as well as routine phone calls and check-ups.

Water Resource Project Development Assessments

WSP assisted in evaluating multiple properties for potential use to improve environmental flows and levels and reduce flood hazards. The assessments required site-specific and regional knowledge of drainage patterns and human alterations related to historical and future mining operations and municipal/residential development. This required review of existing permit documents, applicable regulatory programs and rules, geophysical boring logs, water quality data, evaluation of on-site wetlands and habitats, mining and reclamation plans, existing hydrology studies, and interviews with key stakeholders.

As part of the evaluation, WSP conducted detailed water balance and stormwater modeling to assess the potential to capture, store, and utilize runoff from the site and the surrounding watershed and to beneficially reduce flooding potential for downstream areas. The modeling assessment considered various site configuration alternatives pertaining to modifying available the capture area and on-site storage potential to maximize the potential yield for beneficial use(s). The water balance model used for this project was developed by our staff specifically for this project. The model enabled a comprehensive

evaluation of thousands of multi-decadal climate scenarios. This methodology provides an efficient way to screen a given property's reservoir capacity and performance under a range of wet to dry years, and to estimate the probability of success for the site to deliver a safe annual or daily yield of discharge. This facilitates decisions that account for normal weather and potential climate change.

As a final element of the project(s), we evaluated site development needs with respect to various water resource development concepts considered. The WSP team also developed estimates of capital and operating costs for the most beneficial concepts that were identified. This project drew from our extensive expertise in hydrology modeling, surface mining operations, reservoir design, ERP permitting, sediment management system design, minimum flows and levels assessments, hydrogeology, wetland science and mitigation design, T&E species studies, aquifer characterization and performance testing, surface water drainage system design, and statistical analyses.

Santa Fe and Ichetucknee Rivers Fluvial Geomorphic Investigation For MFL Development

SRWMD has established MFLs pursuant to Chapter 373.042, Florida Statutes for the Upper Santa Fe River and is in the process of establishing MFLs for the Lower Santa Fe River and Ichetucknee River in north central Florida. The District tasked WSP with investigating the three systems' fluvial geomorphology in order to provide an understanding of fluvial and alluvial controls on riparian corridor biogeomorphology and how the systems' biogeomorphology may change in response to adopted and proposed flow reductions. A fluvial geomorphic investigation is key in MFL development, as a channel is not static but rather self-adjusting. The shape of a river cross-section is a function of the flow provided to the channel, the amount and character of the sediment provided to the channel, and the composition of the channel's bed and bank materials (Leopold et al., 1964). Water withdrawals will cause adjustments in flow and sediment transport, thus WSP explored the sensitivities of these systems to potential withdrawals related to MFL thresholds to determine if adverse impacts will occur or if the systems are already in a changing state, in which case adverse impacts may be exacerbated.

WSP's investigation was aimed at meeting the following objectives:

- Determine the channel forming/maintaining flows (i.e. bankfull and effective discharge) and the durations/percent exceedances at which these flows occur for both the open channel (riverscape) and for the floodplain channel (floodscape) for all three systems.
- Determine if aggradation or degradation is occurring within the channel using existing USGS at-a-station records and site observations.
- Determine which stage of channel evolution each system is in if the system is not stable.
- Evaluate how adopted MFLs on the Upper Santa Fe and proposed MFLs on the Lower Santa Fe and Ichetucknee will change the dominant discharge and how the system will react to change.
- Characterize the sedimentation processes of the riverscape and floodscape both longitudinally and transversely (i.e. down and across the riparian corridor).
- Identify major grade controls and sensitivities to flow alteration.
- Explore potential effects of groundwater versus surface water withdrawals on channel morphology.
- Relate spring-run channel morphology to biochemical conditions associated with accrual times and nutrient loads that could affect sediment yield and sedimentation.

Specific tasks completed to meet the objectives above included:

- Evaluated existing information, including MFL reports, draft reports, HEC-RAS models, current and historical aerials, topography, and USGS hydrological data.
- Calculated the bankfull discharge, the stream flow considered "the most effective stream flow for moving sediment, forming or removing bars, forming or changing bends and meanders, and generally doing work that results in the average morphological characteristics of channels" (Dunne and Leopold, 1978). Bankfull flow typically occurs at durations which may be affected by adopted and proposed MFLs. WSP first identified and surveyed (using a total station) bankfull indicators at 16 cross-sections along the project area. A bankfull profile was then imported into existing HEC-RAS models to back-calculate the bankfull discharge.
- Analyzed long-term USGS gage records. Data was used to examine channel measurements for aggradation (narrowing/shallowing) or degradation (widening/deepening) trends, to help calculate bankfull discharge, and to estimate flow durations (or percent exceedances) of calculated bankfull discharge.

Ichetucknee Springshed Water Quality Improvement Project: Treatment Wetland Design

WSP was selected by Suwannee River Water Management District (SRWMD), in cooperation with City of Lake City and Columbia County, to design an infiltration treatment wetland to convert Lake City's wastewater effluent disposal spray fields into constructed treatment wetlands. This conversion will reduce nitrogen loading and provide beneficial recharge into the upper Floridan aquifer and the Ichetucknee Springs group. Nitrogen load reductions are required throughout the basin, including the Ichetucknee springshed, to meet water quality standards. The City of Lake City Wastewater Treatment Facility (WWTF) is currently permitted to discharge up to 3.0 million gallons per day to a wastewater spray field located in a highly karst area.

WSP analyzed historic groundwater and effluent outflow monitoring data through statistical analysis to determine water quality trends. Soil cores were analyzed to determine nutrient leaching to groundwater and the rate of denitrification occurring under existing conditions. Existing hydrologic conditions and geotechnical surveys were also conducted to verify infiltration rates at conduits to the Floridan aquifer, including soil profile modification locations and relic sinks.

WSP professionals developed a conceptual design and a site-specific water quality model using the P-k-C* model to determine performance estimates and wetland size that were used to develop the conceptual design. This included the innovative component of denitrification walls to enhance treatment capacity. Permitting for the project required a major modification to the City's domestic wastewater permit and a State Environmental Resource Permit. It was important to have a pre-application meeting with FDEP to determine permitting requirements before completion of the design. Finalizing the construction package included groundwater modeling and determination of infiltration into the soil profile modification areas, storm event modeling, wind wave modeling, and design of the earthen embankments around the wetlands. WSP prepared the construction bid package documents which included the plans, specifications, material quantities, and cost estimates.

WSP continues to provide construction oversight for the project and acts as a liaison between SRWMD, the City, and the contractor. WSP makes weekly site visits to track progress and documents construction activities in weekly reports. Also, WSP attends bi-weekly progress meetings to discuss recent and upcoming activities and to solve construction issues. Additionally, quality assurance has been provided for the geotechnical aspects of the project and density test reports are reviewed to confirm that the earthwork meets the required specifications. Moreover, the wetland planting is being monitored to help ensure a healthy establishment period for each treatment cell. Other responsibilities include the review and approval of shop drawings, invoices, and as-built drawings.

Project Cost:

$2.5 million

Staff:

Charlene Stroehlen, PE, Jennifer Sagan, Gregory Corning, PE, and Dustin Atwater, GISP.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
1. FIRM NAME		2. FIRM LOCATION (City and State)	3. ROLE
a.	WSP USA Environment & Infrastructure Inc.	Lakeland, Tampa, Newberry, Miami Lakes, and Altamonte Springs, Florida	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 **4**
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
SJRWMD Comprehensive Services, Districtwide, Florida	Ongoing	Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
St. Johns River Water Management District	Casey Fitzgerald	386.329.4554
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*		

WSP has provided comprehensive engineering and environmental services to SJRWMD for more than 20 years. Some of our services to date include the following:

Synoptic Biological Monitoring of Springs – Data Collection

St. Johns River Water Management District (SJRWMD) selected WSP to assist with this large scale project developing a baseline set of ecological data in 14 spring-fed rivers and 26 transects across the state. The intense and relatively short turnaround (less than one year for completion) scope of the project is highly inter-disciplinary, including many facets of hydrological and biological monitoring, specifically to capture the variability of physicochemical parameters (water chemistry, channel morphology characteristics and current velocity), submerged aquatic vegetation (SAV), benthic macroalgae, epiphytic algae, and macroinvertebrate communities.

Biological monitoring has occurred in May 2015 and the second event was in September/October 2015. Physicochemical data collection has been conducted for three events, and was conducted during three additional sampling events prior to November 2015. Project objectives included developing a baseline set of biological community composition (i.e. abundance and biomass) and distribution data that can be used to assess current ecological conditions to compare to historical and future conditions in spring ecosystems.

WSP biologists collected SAV and algae from the benthic zone at established transects in each spring-fed river, which required SCUBA diving by the WSP Dive Team at some of the deeper locations. Divers or snorkelers conducted observational monitoring for percent coverage estimates and biomass collection of all SAV species, and epiphytic and macroalgal communities present within the quadrats. Biological samples were collected for various purposes, such as determinations of morphometric parameters, dry biomass weight, ash-free dry biomass weight of plants and algae, and for taxonomic identifications of algal species and macroinvertebrates found within the benthic habitats. The WSP biology–toxicology laboratory processed these subsamples which totaled more than 1,000. WSP worked with GreenWater Labs to obtain epiphytic and macroalgal taxonomic identifications. Taxonomic identifications were conducted for aquatic macroinvertebrate samples by highly skilled in-house WSP laboratory staff.

For the physicochemical component, detailed current velocity profiles were conducted across the river channel, along with densiometer estimates for riparian canopy cover. Water chemistry measurements (dissolved oxygen (DO), pH, specific conductivity, turbidity, and water temperature) were taken using in-situ water quality multiparameter sondes (YSI 556). Instruments that were used to collect physicochemical data were regularly maintained and calibrated with documentation in accordance with FDEP SOPs FT1000, FS1000, FD1000, FT1100 through FT 1600 and FT1800.

Middle St. Johns River and Orange Creek Basin Programs

The Middle St. Johns River and Orange Creek Basin programs provided long-term scientifically-based management of water resources as well as assessment of water pollution. Monitoring and management under this program focused on large lakes, segments of the St. Johns River, and two spring-fed rivers. Scientists in this program worked on the development of Pollutant Load Reduction Goals (PLRGs), and river and lake restoration alternatives, and also supported FDEP in the development of TMDLs.

WSP provided on-site technical and scientific staff for the Middle St. Johns River Basin (MSJRB) and the Orange Creek Basin (OCB) who performed the following tasks:

- Designed and implemented water quality and environmental monitoring programs
- Updated and maintained data files on water quality, vegetation, and sediments and prepared data tables, graphs, and figures
- Participated in the creation of data reports and reviewed data deliverables
- Reviewed wetland design literature and assisted with wetland design
- Developed and managed contracts associated with the water quality monitoring programs in the MSJRB and OCB
- Contractor coordination to ensure completion of assignments on time and within budget

- Maintained clear and easily accessible documentation of all stages of each contract's development and execution
- Provided scientific and technical support to District scientists for the completion of reports and publications
- Developed and delivered presentations on project work and findings

Submerged Aquatic Vegetation Monitoring and Habitat Assessment

Monitoring of submerged aquatic vegetation (SAV) supports one of the District's core missions of surface water protection. WSP scientists have been instrumental in the assessment of Lower St. Johns River (LSJR) SAV since 1998, performing a variety of tasks associated with water quality and SAV as well as other biological evaluations and sampling related to SAV habitat. Tasks WSP performed on this project include:

- Conducted monthly and quarterly SAV sampling to obtain cover, bed length, blade length and maximum water depth colonization
- Collected biweekly water quality data corresponding to SAV transects by utilizing water quality sondes and employing District SOPs for sample collection and handling in preparation for laboratory analysis
- Quantified epiphytic & littoral zone macroalgal biomass (Dry weight and Ash Free Dry Weight)
- Analyzed relationship between SAV abundance and variables such as water quality & epiphyte load
- Determined changes in SAV bed extent and growth in the St. Johns River resulting from limited light availability
- Conducted and designed SAV productivity and grazing studies
- Field-truthed hyperspectral aerial imagery of SAV beds
- Collected water column, benthic, and epifaunal invertebrate samples within SAV beds.

One particularly intensive analysis was to evaluate the impact of potential increases in salinity as a result of river water withdrawal. Submerged aquatic vegetation (SAV), which in the LSJR is made up of predominantly freshwater and brackish species, may be deleteriously affected by upward shifts in salinity levels. WSP personnel assisted the District with the design, site selection, project coordination, and data collection and analyses associated with two projects:

SAV meadows adjacent to freshwater and brackish locations within the LSJR were surveyed on a weekly basis in order to collect cover and species diversity data. Continuous water quality samplers measuring salinity were placed at corresponding locations. Effects of salinity levels and salinity fluctuations on SAV habitat during growing season conditions were assessed as were the potential synergistic effects of light attenuation.

Transplant studies were devised in order to determine the salinity tolerance, survival duration, and recovery threshold of Vallisneria americana when exposed to various salinity levels. Whole plant specimens were removed from the freshwater section of the river, then potted, and placed in downstream river sites of various salinity profiles. Replicate specimens were left at each salinity profile for various intervals and then returned to the freshwater section for a recovery period. Leaf length, ramet counts, blades per ramet, number and type of reproduction structures, and epiphytes coverage were recorded before deployment and after exposure intervals and recovery periods. At each site, continuous water quality monitors and light sensors were deployed.

Upper Ocklawaha River Basin Program

WSP dedicated full-time environmental scientists to provide database management and scientific support to the St. Johns River Water Management District's (SJRWMD) Upper Ocklawaha River Basin (UORB) Program.

WSP's tasks included:

- Designing QA/QC procedures for SJRWMD data to be uploaded into District Environmental Database and STORET
- Creating VBA-enabled Excel spreadsheets to automatically update frequently used presentation graphics
- Creating Graphical User Interface forms for SJRWMD plankton and bird survey database applications
- Using Internet-enabled Java applications to download data from District databases
- Programming Visual Basic software to analyze water quality data stored in the District Environmental Database
- Organizing and managing water quality, pesticide and plankton data
- Assisting District staff with water quality sampling, fish sampling field and lab work
- Participating in various projects at the Emeralda Marsh Conservation Area involving treatment methods for Hydrilla removal, water quality monitoring for Alum application, and dredge disposal involving GIS elevation analysis
- Assisting in preparing Hydrilla "white paper" by completing literature review on Hydrilla issues in Florida and UORB Chain of Lakes, and assessing the effectiveness of a survey-based management system

- Coordinating toxicological issues
- Developing biological assessments in association with projects risk assessment results on restoration sites
- Assisting in development of District site restoration plans
- Assessing wetland habitat and making projections for wetland community development
- Providing primary study design and data analyses to evaluate mechanical harvest of Hydrilla from District properties

Surface Water Quality Monitoring Network

WSP provided field, laboratory, and database management services in support of surface water quality monitoring for two monitoring networks for the St. Johns River Water Management District (SJRWMD) and FDEP: Integrated Water Resources Monitoring (IWRM) Tier 1 Status Network and Fixed-Station Trend Network. Fixed sites were sampled monthly and enabled FDEP to obtain chemistry, discharge, and loading data at the point that integrates the land use activities of the watershed over a ten-year period.

WSP was responsible for documenting water and sediment quality and biological conditions to characterize the environmental conditions of Florida's fresh water resources to determine how these conditions change over time, both at a basin level and Statewide. WSP staff adhered to the FDEP Standard Operating Procedures (SOPs) for sampling and field work and "Status and Temporal Variability Monitoring Network Sampling Manual." WSP performed the following specific tasks in support of this project:

- Collected water quality, sediment and biological samples, GPS and stage data at the IWRM-Tier 1 and TV sites for surface water sampling and at District sites utilizing SJRWMD-specific SOPs
- Entered and reviewed field data using appropriate quality assurance/quality control procedures
- Performed data uploads/downloads from STORET, RDBMS, USGS and other database management systems, checking data outliers and preparing data for analysis
- Attended training, meetings and professional symposia as required by the District and/or the FDEP
- Prepared data tables, graphs/figures and created or assisted with creation of data reports
- Developed and delivered presentations based on project work and findings
- Assisted with contract management: developed scopes of work and experimental design; reviewed and processed progress reports and invoices; developed necessary correspondence
- Planned, scheduled, tracked, and maintained sampling activities in LIMS and other tracking sheets
- Archived field data sheets, data management routing forms and data validation request forms
- Maintained records of procedures and methods used, digital photos, GPS measurements and other data collected
- QA/QC lab data files to ensure data was complete and accurate for water, sediment and biological monitoring data
- Developed database for storing benthic and algal data that could not be uploaded to the District Environmental Database
- Maintained data sets for maps and charts
- Created maps using ArcView and ArcInfo tools
- Responded to public and in-house requests for water quality data and/or information

Engineering Division Hydrology and Water Quality

WSP developed hydrologic models in support of SJRWMD's Pollutant Load Reduction Goal (PLRG) MFLs water supply process. Hydrological Simulation Program-Fortran (HSPF) models were developed in the Lower St. Johns River, Middle St. Johns River, and Ocklawaha River Basins.

WSP tasks included:

- Performed water quantity and quality studies of surface water basins using major watershed models such as: HEC-HMS, HEC-RAS, SWMM, BASINS/HSPF, and District-developed models
- Performed computer model calibrations and verifications of watershed simulations
- Maintained and updated water quantity and quality simulation models
- Generated stage-storage discharge relationships for applications in other computer models
- Wrote technical reports and participated in the presentation of study results
- Performed field surveys

- Performed hydraulic simulation of streams and rivers, such as developing surface water profiles using HEC-RAS
- Determined data needs for watershed studies and computer simulations such as land use, soil, BMP, and other GIS, meteorological, and hydrologic data
- Designed hydrologic monitoring networks
- Performed statistical analyses and quality control on collected data and simulated results
- Developed surface water profiles using HEC-RAS

Silver River and Lower Ocklawaha River Floodplain Soil Loss Assessment

WSP's lead stream corridor expert was hired by SJRWMD to chair a blueribbon panel of scientists and engineers tasked with developing a plan study to determine the extent and cause of soil losses in the floodplains of two of Florida's most famous rivers, the Silver and the Ocklawaha. This assessment was necessary for SJRWMD's minimum flows and levels assessments of these systems and are an important component of finding the right balance of water resource management to meet regional water supply demands in a manner protective of these natural riparian systems. This problem required the involvement of PhD-level research scientists because the system, especially the Ocklawaha, has a complex history of intense human alteration and the areas that are most natural are considered highly valuable. It is possible that the system could still be going through complex reactions to historical alterations and management schemes. Understanding of the system's past trajectory was deemed to be an important aspect of understanding its current function and to calculate thresholds sensitive to further changes in its hydrology.

The Silver River is one of the largest Karst spring runs in the world and has the Silver Springs attraction at its headwaters near Ocala. Its waters typically run crystal clear. The Ocklawaha River is a blackwater stream upstream of its confluence with the Silver, historically similar to such streams found across the southeastern coastal plain of the U.S. Because of this, the system supports extensive seasonally flooded bottomland forests with mixed cypress and hardwood communities distributed across a floodplain with a variety of alluvial and fluvial features. Some of these bottomlands are exhibiting extensive areas of exposed large root masses.

The panel consisted of a multi-disciplinary group of University of Florida research professors and consultants from WSP and ECT; soil science, hydrology, fluvial geomorphology, and wetlands hydroecology were the main disciplines represented by this group of PhD's. The plan-of-study focused on multiple paths of investigation, some with ample precedent in Florida and some aimed at increasing scientific understanding of Florida floodplain development, to avoid coming to any overly-simplistic and potentially over-reaching conclusions. The plan also had to meet MFL schedule and District budget considerations. Key stakeholders know to have keen interest in soil losses and other factors related to the hydroecology of these systems were also queried for their comments on the first draft of the plan and some aspects were re-scoped as a result. The plan is intended to provide proper guidance balancing specificity of initial methods and a basis for formulating adaptive management adjustments pending the outcome of the initial investigations. Some of the basic methods were derived from soil loss studies conducted in wetlands and stream corridors in Louisiana, Australia, and for the wet expanses of the Florida everglades among others.

Turkey Creek Upper Reach Maintenance Dredging

WSP was contracted by the City of Palm Bay to conduct a maintenance dredging project on the upper reach of Turkey Creek to remove the majority of the sandy sediments from the area. The study objective was to attain sufficient depth to provide navigation access from the Indian River Lagoon to the Turkey Creek Sanctuary. Options for the permanent disposal of the dredged materials were to use an existing disposal site approximately three miles away or to create a new disposal site in closer proximity to the canals. There was a special emphasis on the beneficial reuse of sediments.

Once completed, the project improved public navigation in Turkey Creek and increased tourism.

Eau Gallie River Dredging and Disposal Design

WSP completed multiple tasks supporting Taylor Engineering's design and permitting for St Johns River Water Management District's Eau Gallie River dredging project in Melbourne, Florida. The project includes removal and disposal of approximately 700,000 cubic yards of organic bearing muck sediments for environmental restoration of the Eau Gallie River which discharges to the Indian River Lagoon. WSP tasks included:

- Sediment sampling using a variety of techniques including electric vibracores and piston tube sampling
- Physical and geo-chemical characterization of sediment properties
- Bathymetric survey of the top and bottom of muck sediment surfaces using probes and automated hydrographic surveys
- Seawall and dock structure survey
- Topographic survey of proposed Washington Park disposal area
- Environmental assessment of proposed disposal area adjacent to Brevard County Landfill

- Geotechnical investigation and evaluation of proposed disposal area and dredge pipeline route
- Design of a disposal area liner system to protect groundwater from brackish dredge water
- Evaluation of sediment characteristics related to hydraulic dredging and dewatering

WSP's work was incorporated into the design and permitting package prepared by Taylor Engineering. Environmental permitting was completed and approved and by the relevant agencies.

Lake Apopka Dredging, Spoil Management, and Water Treatment

WSP is currently assessing the cost effectiveness and scalability of three primary sediment removal and spoil management alternatives; (1) dredging of lake sediments to establish and test catchment sumps and associated semipermanent sediment removal systems, (2) dredging of areas that limit access connecting the Apopka-Beauclair (AB) Canal to Lake Apopka, and (3) dredging sediments in near-shore areas immediately adjacent to habitat restoration areas to establish and maintain suitable conditions to establish beneficial aquatic vegetation plantings. In addition to dredging and spoil management elements, innovative water quality treatment methods will be tested and evaluated with regard to effectiveness and scalability. A key component of the project is to monitor, assess, and document construction methods, performance data, results, project costs, return on investment, etc. to facilitate the evaluation of the scalability and effectiveness of the individual project elements.

Continuing Land Surveying Services

WSP has provided miscellaneous surveying and mapping services on an as-needed basis to various departments within the District, including Land Management, Legal, Engineering, and Construction. Historically, services primarily involved cadastral surveys to support land acquisition and land management programs. WSP also provided topographic surveys, bathymetric surveys, and subsurface utility location and surveys to support engineering and scientific missions being carried out by the District.

Projects under this contract included:

- Cross sections of levees and marsh for an 11-mile section of the upper St. Johns River marsh in Indian River County
- Cross section and topographic survey of the Ocklawaha River, Rodman Pool, and the St. Johns River in Marion and Putnam Counties
- Cross sections of a 2-mile portion of Apopka-Beauclair Canal and adjacent marsh in Lake County
- Topographic survey of the 165-acre Spencer-Leeper Tract in Seminole County
- Surveys of 85 monitor wells and staff gauges located throughout the central portion of the District
- Geodetic control, cross sections, topographic, hydrographic, subsurface utility surveys, and construction layout at Harris Bayou in Lake County
- Bathymetric and sediment thickness surveys and quantity computations of sediment for Lakes Monroe (8,000 acres) and Harney (6,500 acres) in Volusia County
- Boundary surveys for land acquisition totaling 6,500 acres along north shore of Lake Apopka in Orange and Lake Counties to support the Lake Apopka Restoration Program
- Boundary surveys for land acquisition of two parcels totaling 10,500 acres in Indian River county to support the St. Johns River Headwaters Restoration Program

Project Cost:

$25 million

Staff:

Jennifer Sagan, R. Michael Jones, PLS, CFedS, Charles Gardiner, PLS, CFedS, Max Ramos, PSM, Shannon McMorrow, PWS, Gregory Corning, PE, Charlene Stroehlen, PE, Tiffany Davies, Christine Mehle, PE, CFM, ENV SP, and Dustin Atwater, GISP.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
1. FIRM NAME		2. FIRM LOCATION (City and State)	3. ROLE
a.	WSP USA Environment & Infrastructure Inc.	Lakeland, Tampa, Newberry, Jacksonville, Miami Lakes, and Altamonte Springs, Florida	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)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
Manatee County Marine and Environmental Services Continuing Contract, Manatee County, Florida	Ongoing	Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Manatee County	Sherri Swanson, PWS, GTA	(941) 792-8811 ext 8073
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*		

WSP was selected by Manatee County to provide environmental assessments and marine engineering that includes the following services:

- Planning, designing, environmental permitting, bidding and construction administration services
- Submitting applications for permits or exemption determinations for dredging of navigation channels and other waterway improvement projects
- Providing design services for waterfront facilities, marine systems and infrastructure including docks, boardwalks, boat ramps, seawalls, mooring systems and aids to navigation
- Providing services related to public assistance grants, current rules and regulations of local, state and federal agencies that regulate the environment and all marine, land use and building code provisions such as the National Environmental Policy Act (NEPA)
- Working with FDEP, SFWMD, EPA, applicable Florida Statues, Manatee County Municipal Regulations, and South Florida building codes
- Creating GIS databases and maps, stratigraphy-collection and analysis, and development of mitigation plans
- Reviewing and analyzing of permits/exemptions issued by federal and state permitting agencies
- Providing resource inventories, water quality and pollution control, remedial investigations, toxicity reduction evaluations and management
- Providing disposal and reuse of dredge materials

Kingfish and Coquina South Boat Dock Replacement Design and Procurement Assistance

The design intent for this project was to provide a replacement of the existing timber framed dock supported on timber piles with a wood framed guardrail system in the same footprint. The existing footprint was investigated to determine applicability with ADA standards in order to eliminate the need for extensive reconstruction of the facilities.

The location and length of the docks will be determined by the existing footprint of the two wooden docks, dependent on the ADA investigation. The docks will supplement a recreational boat launching site in a protected waterway where the primary loading component will be vertical as opposed to a high impact structure subjected to heavy surf action and lateral loads from open water and commercial boat use.

The docks will be designed to the standards set forth for boarding docks, which means a portion of a dock where a boat is temporarily secured for the purpose of embarking or disembarking, specific design standards that will be utilized are as follows:

- 2012 Florida Accessibility Code for Building Construction
- 2014 Florida Building Code 5th Edition
- Timber Pile Design and Construction Manual

Waterway Marker Technical Specification Document

The purpose of this project was to research and confirm that "Guidelines for Posting Uniform Waterway Markers In Florida's Waterways, Appendix A and B" dated March 2008 is up-to-date with all state and federal requirements to meet County needs. Tasks included the following:

Typical buoy and signage design drawings and specifications for the following:

- Channel Markers -red/green
- 3'x4' single pile
- 4'x6' double pile
- Manatee protection

- Boating safety zone signage
- Spar buoys using helical anchors and chain or AmSteel anchor line
- Maintenance Plan for existing and proposed buoys and signage

Mill Creek Water Quality Study

A multi-year Cooperative Funding Initiative (CFI) involving the Southwest Florida Water Management District (District) and Manatee County (County) to develop a watershed management plan (WMP) for the Mill Creek watershed is currently underway (Project Number N619). The information developed from the WMP will assist the County with flood protection as well as planning and development decisions. It will also support the District's Resource Management Division and Environmental Resource Permitting (ERP) programs. The WMP will not address all water quality issues within the Mill Creek watershed.

Additional support was secured for the CFI between the District and the County for a Surface Water Resource Assessment (SWRA) to study water quality impacts in the watershed. WSP was contracted to complete the SWRA, which will synchronize with emerging WMP results and add detail relevant to water quality planning, in particular, mitigation of a Florida Department of Environmental Protection (FDEP) waterbody impairment.

WSP was selected by Manatee County and the District to perform the SWRA element of the Mill Creek Watershed Management Plan. WSP has completed a literature search, trend analysis, and preliminary water quality assessments. WSP used the 1D and 2D ICPR4 basins developed as part of the WMP, to develop existing and future pollutant load models. Existing land use was updated to reflect current conditions based on aerial imagery and future land use was updated based on the County's 2050 planned land use. WSP is in the process of conducting field reconnaissance to support BMP recommendations. Final tasks include preparation of a category 4e Plan and BMP conceptual plans, cost estimates, and quantification of resource benefits for three alternatives.

Boat Ramp and Dock Annual Inspection Services

As potentially an initial effort for Manatee County's ongoing maintenance of their docks and boat ramps, WSP proposes to visit each of the following nine sites on an as needed basis and provide the following assessment services:

- Warner's – 5800 Riverview Blvd, Bradenton, Florida 34209
- Highland Shores – 353 Shore Drive, Ellenton, Florida 34222
- Coquina South – Gulf Drive S, Bradenton Beach, Florida 34217
- Kingfish – 752 Manatee Avenue, Holmes Beach, Florida 34217
- Jigg's Landing – 6106 63rd St E, Bradenton, Florida 34203
- State Road 64 – 3020 Manatee Ave E, Bradenton, Florida 34208

- Coquina North – 2652 Gulf Drive S, Bradenton Beach, Florida 34217
- Fort Hamer – 1605 Fort Hamer Road, Parrish, Florida 34219
- Palma Sola Causeway Boat Ramp – Manatee Avenue W, Bradenton, Florida 34209

These services include documenting existing conditions, noting any deficiencies, and providing recommendations for repair or further investigation, as deemed necessary. The following are the two tasks proposed to complete an inspection for each site.

Review of the site will be based on our understanding of the intended use and site-specific details provided by Manatee County. Prior to our site visit, we will require all background information for the site to include surveys, previous assessments or inspections, maintenance records or work orders, design drawings and as-builts. The assessment will be based on the following reference standards:

- 2012 Florida Accessibility Code for Building Construction
- 2014 Florida Building Code 5th Edition
- Manatee County Land Development Code – Chapter 5 – Section 511.17 Waterfront Structures

Task 1 – Site Visit

WSP will deploy a licensed Florida Professional Engineer with knowledge and experience in the design and permitting of marine infrastructure such as boat ramps, docks, seawalls, pilings, and associated components. WSP will perform visual observations of the exposed structural elements of the structure including decking, framing, piles, and associated structural connections. WSP will document the current conditions observed and note the approximate locations, dimensions and types of distress that are visually apparent. WSP will photograph the typical conditions observed, as well as distressed items and areas. Our observations will be limited to exposed structural elements, above water only, and we will not remove any architectural finishes as part of our work. As accessibility allows, we will observe the underside areas and substructure of the dock. Our observations will be made from reasonably accessible areas of the structure provided access to these areas are safe and permitted.

Based on our findings, we may recommend a more invasive or an underwater assessment to determine the actual cause of damage, the full extent of any damage, or requirements of the repair.

Task 2 – Reporting

Upon completion of our field work, we will prepare a report in electronic format (PDF) containing a summary of our visual observations, photographs documenting our observations, field notes and sketches showing the approximate location of observed distress. We will provide recommendations for repair or for further investigative services, if warranted.

Our findings will be provided indicating the most probable cause of the damage as accessible given all site limitations. Based on our findings, we may recommend a more invasive assessment to determine the actual cause of damage, the full extent of any damage, or requirements of the repair.

Project Cost:

$256,000

Staff:

Gregory Corning, PE, Tirrell Day, PE, Christine Mehle, PE, CFM, ENV SP, Tiffany Davies, PE, Charlene Stroehlen, PE, Dustin Atwater, GISP, R. Michael Jones, PLS, CFedS, and Timothy Kelly, PE, CPSWQ, CPESC.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	1. FIRM NAME	2. FIRM LOCATION (City and State)	3. ROLE
a.	WSP USA Environment & Infrastructure Inc.	Lakeland, Miami Lakes, Tampa, Newberry, Altamonte Springs, and Jacksonville, Florida	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)	22. YEAR COMPLETED	
Monroe County General Architectural and Engineering Services, Monroe County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION (if Applicable): Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER: Monroe County, Florida	b. POINT OF CONTACT NAME: Rhonda Haag	c. POINT OF CONTACT TELEPHONE NUMBER: 305-453-8774

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

WSP is serving Monroe County as a continuing consultant providing general engineering and architectural services. Some of these projects include:

Canal Restoration Demonstration Program

As part of the Monroe County Canal Restoration Program, WSP completed the design, permitting, and construction oversight for six demonstration projects that were completed to evaluate the feasibility and cost of implementation of the technologies selected as part of Phase II of the Canal Management Master Plan. The selected technologies consisted of:

- Air curtains to prevent the influx of weed wrack into canals
- Removal of accumulated organic sediment
- Installation of a culverts to promote flushing
- Backfilling of a deep canal

Data collection consisting of bathymetric surveying, geotechnical sampling, tidal studies, and polymer performance testing was completed as needed to facilitate design. Additionally, hydraulic modeling was used to properly size the flushing culverts.

WSP worked closely with Monroe County to increase involvement with stakeholders, both homeowners and government agencies, to help ensure that the implementation of the projects caused minimal disruption to homeowners and the environment.

During implementation, optimization of the construction activities was completed; including permitting an alternative polymer to increase the production rate for organic sediment removal, and implementing noise reducing measures for the air curtains to mitigate homeowner concerns.

WSP provided oversight of the construction activities to ensure that the project performance specifications were followed, and worked closely with contractors to correct items of non-compliance in a timely manner.

The completion of the demonstration projects achieved significant success, with the most notable being the establishment of seagrass in the canal that was backfilled.

Hurricane Irma Marine Debris Monitoring and Related Services

Monroe County, City of Marathon, and Village of Islamorada are currently recovering from the devastating effects of Hurricane Irma, a Category 4 storm that directly impacted the Florida Keys. The debris generated from Hurricane Irma is causing an environmental impact to the surrounding Outstanding Florida Waters (OFWs) and preventing the community from accessing certain locations based on the impact. An OFW is a body of water designated worthy of special protection because of its natural attributes. Monroe County is a water dependent community and the removal of this debris from the canals will allow for the return of normalcy. This debris includes, but is not limited to vegetative, hazardous waste, non-marine vehicles, construction and demolition, vehicles, white goods, and e-waste. The 103 canals that will be cleaned of hurricane debris under this grant are located in unincorporated Monroe County, Marathon, and Islamorada. Eight of these canals are in the Upper Keys, 23 in the Middle Keys, and 72 in the Lower Keys.

WSP has been an active partner with Monroe County during the last 10 years providing care and commitment to ensuring the successful implementation of environmental restoration projects to protect the pristine natural environment and community throughout the Florida Keys. As a result of our previous work in the canal cleanup projects, we possess an extensive database of information on canal conditions in the Florida Keys that have assisted in the Hurricane debris removal effort. WSP is providing continuous monitoring services over the selected Contractor, which includes ensuring all Best Management Practices such as turbidity curtains, silt fences, and hay bales. WSP is also providing Threatened & Endangered species monitoring during the construction activities, as well as providing administrative, technical, and program management support for services that meet the USDA-NRCS requirements in support of the project. We are developing solutions and programs to support debris management/ disaster recovery including, but not limited to file migration/management, SharePoint development, Access data solutions, Excel data solutions, Tableau products, GIS products, high-level reporting associated with these products, and web design/development. Additional tasks include:

- Creating maps and graphs, using GIS software and related equipment
- Assisting in defining data needs, project requirements, required outputs, or developing applications
- Conducting research to locate and obtain existing databases and ensuring compatibility of applications/tools with Monroe County's existing systems and databases
- Input and organization of spatial data for geographic statistics to incorporate into documents and reports
- Entering new map data through use of a digitizer or by direct input of coordinate information

WSP was instrumental in preparing and submitting the applications for the USDA-NRCS funding be used for this contract in the Florida Keys. The County submitted a letter of request to USDA-NRCS requesting Federal assistance under the provisions of Section 216 of the Flood Control Act of 1950, Public Law 81-516 or Section 403 of the Agricultural Credit Act of 1978, Public Law 95-334, to restore damages sustained in Monroe County by storms of Hurricane Irma. The letter focused on the damage that was widespread throughout the County with substantial damage sustained in the parks and waterways. The damage sustained to the parks included infrastructure and general site items such as eroded away seawalls, access roads, and stormwater drainage systems, which have caused closures due to immediate threat to public safety and potential for environmental degradation. The waterway debris included, but is not limited to vegetation, construction and demolition debris, vessels, propane tanks, partially and completely submerged vehicles, white goods, e-waste, hazardous waste, docks, seawalls, houses or portions of houses that pose a direct threat to the health, safety, and welfare of the residents of the County.

Upon acceptance in the program, WSP worked diligently to pull together the application and associated documentation for the $45 million USDA-NRCS funding request. That process included:

- Site evaluations for canals including underwater photo documentation of debris and estimated volume of debris based on a cross section approach across the Florida Keys
- Economic considerations for properties adjacent to canals that would be protected
- Social considerations such as life and property impacts
- Debris and cost estimates for the eligible canals

Based on the review of the more than 500 canals within the Florida Keys impacted by Hurricane Irma, USDA-NRCS deemed 103 canals eligible under their program guidelines, highlighted below.

- DSR No. 1: Big Coppitt, Geiger, Saddlebunch, Sugarloaf - $1.7 million
- DSR No. 2: Cudjoe, Summerland, Ramrod, Little Torch - $2.9 million
- DSR No. 3: Big Pine - $16.9 million
- DSR No. 4: Conch, Tavernier, Key Largo - $2.4 million
- DSR No. 5: Marathon and Islamorada - $10.6 million

Marine Debris Monitoring

Prior to beginning the debris removal phase, trucks and trailers used for the purpose of transporting debris will be measured by WSP. This information will be utilized for documenting the volume of debris being removed from the canals, nearshore waters, and from the Temporary Debris Management Areas (TDMAs) to accurately determine the pass through cost at the final disposal sites.

WSP's Safety Officer and Project Manager will conduct a safety briefing and safety equipment check prior to operations to ensure compliance with OSHA. Following the initial check, the monitors will be required to perform daily tailgate safety meetings with the Contractors to ensure all aspects of the day's work is being accounted for, including Personal Protective Equipment (PPE) such as hard hats, steel toe boots, safety vests, and life jackets.

TDMA monitors will ensure all necessary clearances, permits, and County/Project Manager-approved site plans complete with site specific safety and/or accident prevention plans, maintenance of traffic plan, a fire prevention plan, plus a complete subcontracting plan listing all subcontractors and equipment to be used are being complied with at all times. WSP will also ensure Federal, State, and Local permit requirements are being met during the completion of the marine debris activities.

WSP will utilize the canal site visits including underwater photos and canal impact maps produced for the USDA-NRCS application to assist the County in reviewing and approving the Contractor provided work plan. We will use the latest and most effective technologies to track, coordinate and verify all marine debris, sediment and vessel removal from Monroe County Canals. Side-scan sonar logs produced by both WSP and debris removal contractors will be georeferenced and mapped using sonar logging software. This process will be used in verification of canal clean-up completion as well as debris targeting during the debris removal process.

The WSP team will utilize ArcGIS collector maps developed specifically for this project to track marine debris, sediment and vessel removal on daily basis. Field monitors will collect real-time data as debris is removed from project sites each day including amount of material removed, number of trucks hauled, length of canal cleaned, equipment on-site, staff on-site, construction issues, property damage claims, water quality concerns, protected species issues and photographs documenting the day's work. This data will be streamed in real-time to ArcGIS online maps accessible to the entire project team including Monroe County project managers and debris removal contractors.

Additionally, if it is necessary to support the marine debris removal operations, WSP will utilize our dive team to conduct pre- and post-assessment surveys to document the debris fields within the low visibility canals and nearshore waters. WSP will deploy a three person dive team to survey the canals and provide real-time underwater videos and photo documentation.

All debris being picked up and loaded into haul trucks will be monitored to ensure compliance with the County/Project Manager approved disposal plans. WSP will follow all the requirements set forth in the Florida Department of Environmental Protection (FDEP) Guidance for Establishment, Operation, and Closure of Disaster Debris Management Sites and ensure the debris being brought into the TDMAs is properly sorted and removed within a reasonable timeframe.

WSP will also provide close out documentation for the TDMAs upon completion of the project and understands the FDEP requirements for sampling, which includes the following. Samples will be taken on a pro rata basis according to the area of the site per the following guidelines:

- <1/3 acre = 3 samples
- 1/3 to 1 acre = 4 samples
- >1 acre = 4 samples + 1 additional sample for each additional .5 acre

Canal Sediment, Silt and Sand Removal and Dewatering Monitoring

Once the planning process is complete, the completion and submission of the permit applications to the respective federal agencies can be finalized. WSP will work with the County in completing the applications, which will include a detailed construction methodology plan that document the type of dredging and dewatering system that will be implemented to complete the project.

Another aspect of the project will be the characterization of the sediment to be removed from the canal systems to determine the disposal options. WSP will work with the County in providing the appropriate sample frequency and analysis of the material to be removed to properly dispose of the sediment.

The final part of the project will be monitoring the Contractor to ensure appropriate measures are taken to comply with the design and permit requirements. Dependent on the material consistency and selected technology for the dewatering process, chemical amendments such as polymers may be used to assist with the dewatering process. If these are required, WSP will review the salt water toxicity test results and confirm that the residual polymer concentrations during dewatering do not exceed the permitted toxicity concentrations. WSP will also provide the turbidity and threatened and endangered species monitoring as noted in the aforementioned marine debris monitoring section.

Tom's Harbor Channel Bridge Repair Project

WSP provided Construction Engineering and Inspections (CEI) services for the Tom's Harbor Channel Bridge Repair project. Repairs included replacement of the bridge deck and guardrails, reinforced concrete beams, diaphragms, concrete columns, pile jackets, caps, and abutments.

As part of the contract, WSP was responsible for administering, monitoring, and inspecting in order to ensure the project was constructed in reasonable conformity with the plans, specifications, and special provisions of the contract.

WSP also monitored the contractor's on-site construction activities and performing inspections on construction materials while keeping detailed records of the contractor's daily operations.

WSP was responsible for monitoring and inspection of Contractor's Work Zone traffic control plan and review of modifications to the Work Zone Traffic Control Plan, including alternate Work Zone Traffic Control Plan, in accordance with FDOT procedures.

Additional services include:

- Sampling and testing of construction materials
- Construction contract administration
- Construction documentation
- Conducting meeting with the County Engineer

Geiger Creek Bridge Design-Build

WSP served as the primary representative during construction improvements of an ARRA-funded bridge rehabilitation project located on Geiger Key.

The project was a lump sum design-build project, contracted to bring the serviceability of the bridge to acceptable levels. WSP staff provided support to the County Project Manager with Equal Employment Opportunity (EEO) compliance efforts, Davis-Bacon Act wage rate confirmation, employee interviews, bulletin board reviews, and monthly certification of work efforts.

WSP's project administrator assisted the County with review of monthly payment applications, and reviewing as-built records. The project administrator, who was also the senior project engineer, conducted engineering evaluations of a damaged beam and documented the crack severity rating leading to its rejection.

Monroe County relied on WSP to provide full construction documentation for periodic audits by the FDOT and assure compliance with all contract documents and permits.

FEMA Substantial Damage From Hurricane Irma

WSP developed a mobile application that allows communities to more quickly collect data on repetitive loss buildings. Monroe County, Florida, purchased this tool to collect data on more than 5,000 repetitive loss buildings throughout the Keys. This tool was adjusted to meet the criteria of the Monroe County CRS Coordinator and the Floodplain Program so that a Repetitive Loss Area Analysis (RLAA) can be developed under Activity 510 in the CRS Program.

Sheriff Annex Building Window Replacement

WSP provided personnel, services, equipment, materials, and other requirements necessary to conduct design and construction documents to remove and replace the existing exterior windows on the Monroe County Sheriffs Administration Building.

WSP analyzed the existing as-built information provided by the County and conducted a Kick-Off meeting with the County and key maintenance personnel. WSP observed the type and general conditions of the windows to determine scope of work and construction details.

WSP coordinated with County personnel to select a new window system. WSP observed the types and conditions of the windows and visible deficiencies. WSP identified wall types that will be affected by the window replacement work. WSP provided five (5) complete sets of signed sealed construction documents including all full sized plans and specification books. Construction documents included demolition plan, floorplans, elevations details, wind load calculations, Notice of Acceptance (NOA) and Florida Product Approvals, specifications of the building components being replaced, and cost estimate.

Sugarloaf Fire Station Site Analysis

WSP provided the personnel, services, equipment, materials, and other requirements necessary to conduct one site visit, review all drawings, surveys and pertinent information provided by COUNTY to develop two potential site plans to accommodate a new fire station same as the proposed Cudjoe Fire Station on the Sugarloaf Volunteer Fire Department Lot.

The site plan will include a stealth cell tower. It includes a cell tower and raised two level equipment enclosure with a footprint size of 54' X 25'. The equipment enclosure need not be adjacent to the tower but this preferred. The tower maybe relocated, if necessary, but this is a less desirable option. If allowed by codes, one site plan should be created with the tower and equipment enclosures placed on the roof of the station (presumably a flat roof) with an external accessway (external stairs not through the fire station). The station will have the same facilities as the design proposed for the Cudjoe station:

- 3 apparatus bays with exit to US-I
- Admin area with 4 bunk rooms, 2 shower rooms public restroom, 2 offices, kitchen, dayroom, workout room, entrance foyer, locker room, service areas, and a full building
- Generator

The preliminary site plan design will inc1ude all code required ancillaries including parking, etc. and also provide for access to the cell equipment. It is anticipated that at least some of the admin functions will have to be placed above the bays.

An alternative is to include an open meeting room of approximately 1 ,600 SF. This space can double as fire station space but would, preferably, be capable of isolation from the dedicated fire station facilities. It is permissible (and possibly required to assume the use of a 47' x 160') portion of the FDOT ROW immediate1y adjacent to the sewer pump station (RE# 00 118480-000000) and running 160 LF in a northwesterly direction parallel to US-1. The County has requested that FDOT surplus that section of the US-1 ROW to construct a new fire station and expects that request to be granted. WSP provided the preliminary site plan in electronic PDF format.

Tax Collectors Office Facility Assessment and Repairs

The Monroe County Tax Collector building is a one-story structure with a total roof area of approximately 8,500 square feet. We understand that a portion of the building (on the south west side) was damaged by Hurricane Irma in September 2017. The County has requested WSP to repair the existing damage on the West corner of the building. The southwest portion of the building exterior walls and the slab on grade on the vault room shows portions of material distress and deformation. WSP will provide construction documents for the repair of the damaged portion of the structure at 3101 Overseas Hwy, Marathon, Florida 33050. The construction documents will detail information necessary to restore the damaged area to the original condition. WSP will provide construction documents for necessary repairs and modifications, assistance during the bid process and construction administration services. In addition, we propose a Standard Penetration Test (SPT) to verify existing soil conditions.

Sheriff Annex Building Roof Structure Assessment

WSP representatives visited the Monroe County Sheriff's Annex Building on June 22, 2017. The purpose of the site visit was to generally observe the roof area and selected accessible areas of the underside of the structural roof framing with the intent of confirming that the as-built structural system was in general compliance with the project documents provided and identify relevant signs of distress, if any, that may adversely impact the structural roof framing system.

The site work commenced with an informal meeting with Monroe County representatives. The meeting generally included a debrief regarding the history of facility, information regarding current problems associated with the existing roof covering, and recent activities implemented to mitigate leaks into the upper floor office area. Following the initial debrief, the facility manager escorted our personnel throughout the facility for observations and assessment purposes. Following the site visit, our personnel reviewed the structural roofing parameters and the load tables provided in the as-built drawings along with the loading information provided in the proposed replacement roof system submittals.

Project Cost:

$12 million

Staff:

Gregory Corning, PE, R. Michael Jones, PLS, CFedS, Charles Gardiner, PLS, CFedS, Mark Leon, PE, Brian Hathaway, PE, Christine Mehle, PE, CFM, ENV SP, Tirrell Day, PE, Charlene Stroehlen, PE, Dustin Atwater, GISP, and Tiffany Davies, PE.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
1. FIRM NAME		2. FIRM LOCATION (City and State)	3. ROLE
a.	WSP USA Environment & Infrastructure Inc.	Miami Lakes, Altamonte Springs, Jacksonville, Newberry, Tampa, Pensacola, Lakeland, and West Palm Beach, Florida	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)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
City of Naples Library of Services Contract, Naples, Florida	Ongoing	Ongoing

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Naples	Christopher Lienhardt	(239) 213-5000

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

WSP has completed various projects as an engineering consultant with the City of Naples. Those projects include:

Lake Manor Restoration Project

WSP was contracted by the City of Naples to provide engineering services for the Lake Manor Restoration project. Lake Manor is a 4- to 5-acre lake, located in a residential neighborhood within a 6-acre parcel owned by the City of Naples. The proposed Lake Manor Restoration Project includes:

- Dredging and disposal of approximately 6,200 cubic yards of organic "muck" that has accumulated since Lake Manor construction
- Organic "muck" sediments were slightly contaminated, requiring mixing different areas prior to reuse the sediments by placing them in a mud bogging park.
- Re-contouring and re-shaping of Lake Manor littoral zone for increased littoral vegetation coverage, including plantings and natural recruitment
- Creation of a pathway/trail along the south and east sides of Lake Manor to include bench rest stops and educational platforms

In support of permitting for the project, WSP scientists performed an ecological survey of Lake Manor. The ecological survey included a review of potential impacts to wetlands and threatened and endangered species, as well as mapping of invasive exotic plant species around the Lake. A records review was conducted by WSP prior to the site visit, and included a review of aerial photography (ESRI, 2013), a National Wetland Inventory (NWI) map [US Fish and Wildlife Service (USFWS), 2014, and soil survey data [US Department of Agriculture (USDA), 2012] to preliminarily identify potential wetlands. WSP Wetland Scientists evaluated the project area, conducting the wetlands determination, surveying the area for Threatened and Endangered Species, and mapping invasive exotic plant species. WSP assessed the Project Site and recorded field observations, including vegetation and wildlife, along all edges of Lake Manor. Findings were documented with digital photography, field notes, and a sub-meter GPS unit.

WSP also has conducted sediment characterization of the Lake Manor sediment. The purpose of sediment characterization investigations is to collect information required for design of the dredging and dredged material disposal: specifically to obtain information on the physical characteristics of the sediment that could affect dredged material dewatering and chemical characteristics that determine environmentally acceptable disposal or beneficial reuse options for the dredged materials.

WSP retrieved eight soil cores from locations evenly distributed throughout Lake Manor. Sediment cores were taken using a custom piston corer that extended to a depth of 18 inches below the organic mucky sediments or to refusal. The thickness of each core was measured and recorded. Chemical testing is required to confirm that the dredged material does not require management as hazardous waste, specifically the TCLP extraction followed by analysis of specific pesticides and metals. Eight samples were analyzed for particle size, organic content, moisture content, priority pollutant metals, polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs). Bulk sediments were collected for limited bench scale tests of dewatering procedures to support the 60 percent design as needed. Results of the sediment analysis required mixing different areas prior to reuse. The sediment was divided by size with the fine particles taken to a nearby mud bogging park and the sands were used for fill in a park. WSP also managed multiple public and City information workshops regarding the project. The purpose was to inform the stakeholders regarding all aspects of the project and to obtain input on planting selections, design, and park amenities. The Lake Manor Restoration Project received the Outstanding Achievement Award in 2016 by the Florida Stormwater Association.

Spring Lake Engineering Study

The project consists of the following objectives for Lake 11:

- Review and compile existing data: MACTEC, AMEC, Cardno, FGCU, and the City
- Delineate watershed/sub basin of Spring Lake
- A recommendation of the strategies (type of dredging or other solution) best suited to improve the health of Spring Lake with the least amount of impacts to private property
- The cost of each strategy

- The cost effectiveness of each strategy
- Evaluate both public and private stormwater contributions to the lake's stormwater inflows
- Provide funding options/scenarios for possible lake improvement project
- Provide detailed logistics of a dredge project including, but not limited to:
- Staging area
- Dewatering location
- Disposal of material
- Shoreline restoration
- Source water/contributing watershed controls to reduce pollutants into lake
- Estimate volume based on existing documentation
- Provide detailed logistics associated with implementation of any additional recommended project (if necessary) including, but not limited to short-term and long-term strategies

- Prepare a comprehensive report of findings, including maps, photographs, charts, etc.
- Prepare a presentation for City Council consideration

Stormwater Master Plan Update

The City of Naples has selected the AECOM Team to provide professional engineering services for completion of a Stormwater Master Plan Update, which was last updated in 2007. The objective for the project is to develop a clear, comprehensive, and forward looking Master Plan that encompasses the City's stormwater management program, presents a detailed investigation into key components of stormwater as it is related to the City of Naples, establishes goals, and provides a foundation for future policy decisions. The Stormwater Master Plan Update will help the City guide its stormwater management program for the next 10 or more years. WSP will provide technical assistance as described below:

- Review of Existing Data
- Regulatory Standards Affecting the Stormwater Management Plan
- Evaluation of the City's Water Quality Monitoring Program
- Water Quality Level of Service Analysis
- Capital Improvements
- Cost Benefit Analysis

HVAC Systems Replacement at Fire Station No. 2

WSP is providing design services to replace the existing heating, ventilation, and air conditioning (HVAC) systems at Fire Station No. 2. The facility includes bunk rooms, a kitchen, bathrooms, radio room, offices, and a workout room. The existing HVAC equipment consists of five DX systems that range from 4 tons to 1 ton. The building's outside air is supplied to each air handler by a dedicated outside air unit that is 5 tons. The kitchen exhaust hood has a make-up air unit to provide fresh air in the kitchen while cooking is taking place.

WSP collected building envelope information (wall construction and roof construction), quantity and type of lighting, heat producing electrical equipment information, and room thermostat set points for HVAC calculations. HVAC heat load calculations will be performed for each unit to the current American Society of Heating, Refrigerating, and Air- Conditioning Engineers (ASHRAE) and Florida Building Code standards. Demolition drawings, new installation drawings, and equipment specifications will be provided to the client. As-built drawings were not available from the client to use as backgrounds for the drawings. Laser scanning will be implemented inside the building to create a 3-D model of the building in Revit to be used for the drawing backgrounds. The use of the 3-D model will allow for easier installation of equipment because clearances and interferences will be known and resolved before the final drawings are submitted to the contractor.

Study and Design of HVAC Systems for Community Development Center

WSP provided an engineering study for the existing heating, ventilation, and air conditioning (HVAC) systems at the Community Development Center. The facility is a 20,000-square-foot, two-story building that includes an open lobby, offices, workstation areas, bathrooms, electrical rooms, file storage rooms, and a mechanical room. The building is cooled by 27 sourced heat pumps, supplied by reclaimed water. There is a large outside air unit that also uses the reclaimed water as a cooling source.

When the price of reclaimed water doubled, the City of Naples requested WSP to perform a study on different water sources to use. The study included the use of geothermal wells with a once pass thru system; geothermal wells with a heat exchanger; and a cooling tower option with potable water.

WSP collected building envelope information (wall construction and roof construction), quantity and type of lighting, heat producing electrical equipment information, and room thermostat set points for HVAC calculations. HVAC heat load calculations will be performed for each unit to the current American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) and Florida Building Code standards. A life cycle cost analysis and a cost estimate were also provided for the client to be able to choose the best option for the water source. After WSP submitted the engineering study, the City requested a proposal for design to install a new water source, a new heat pump in the entrance lobby area, and a test well to confirm water availability and quality. The City also requested WSP to design an in-line booster pump to increase the city supplied cooling water for use during backup conditions.

Treatment Marsh and Stormwater Pond Water Quality Assessment

Since 2009, WSP has continuously provided engineering design and assessment services assisting the City of Naples to reduce loadings of pollutants to impaired estuarine waterbodies (Gordon River and Naples Bay) and to enhance the amenity values of City lakes that are components of its stormwater management infrastructure. The City of Naples contracted WSP to design a treatment marsh for the Goodlette Road Pump Station stormwater system outfall. This treatment marsh was designed as a treatment train; collecting trash and heavy sediment in a sump, then a filter marsh which uptakes nutrients and copper from the stormwater runoff. This project included design of a boardwalk and signage for the wetlands and treatment process. Components for the design of the marsh include geotechnical design of a berm and retaining wall behind City offices, a board walk design, delineation and scoring of adjacent mangrove, watershed and water quality modeling, permitting, and marsh design elements. Project included permitting, construction bid package preparation, and construction oversight. Design was completed in 2010; construction of the system was completed in 2011; and WSP has conducted storm event water quality monitoring to assess the effectiveness of the system. The monitoring phase was completed in 2014.

In successive annual work orders since 2009, WSP has monitored stormwater quality in stormwater conveyances, including pump stations and storm sewers, and 27 lakes that are part of the City's stormwater management system. The monitoring program evolved over time and was designed to assist City staff in establishing priorities for water quality improvement. From 2009 through 2013, WSP collected more than 200 samples at approximately 70 locations. These samples included grabs and a limited number of flow-weighted composite samples. All samples were analyzed for nutrients, TSS, bacteria, and copper, targeting causes of impairment in the City's receiving waters. To identify sources of bacteria, a limited number of samples were analyzed for caffeine. Additional assignments have included development of hydrologic and pollutant loadings model for the City's 27 stormwater lakes and to develop public outreach information. The latter focused on use of reclaimed water. Stormwater inputs to the waterbodies were estimated using

current literature-based runoff characterization data, results from the stormwater sampling, and computer modeling programs and techniques. The loadings model was a key component in the development of a Naples-specific lake performance ranking system that supports prioritization of the City's water quality improvement program. Loadings to the lakes, their treatment effectiveness, water quality, and their loadings to impaired waters were factors in the ranking system. During 2013, WSP was contracted to conduct monitoring of water quality in Naples Bay and report the results to FDEP, a program previously performed by City staff. This program provides the primary data used to assess water quality in Naples Bay.

Project Cost:

$2 million

Staff:

Charlene Stroehlen, PE, Gregory Corning, PE, Tiffany Davies, PE, Nestor Fernandez, Shannon McMorrow, PWS, Dustin Atwater, GISP, Brian Hathaway, PE, and R. Michael Jones, PLS, CFedS.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	1. FIRM NAME	2. FIRM LOCATION (City and State)	3. ROLE
a.	WSP USA Environment & Infrastructure Inc.	Miami Lakes, Lakeland, Newberry, Altamonte Springs, and West Palm Beach, Florida	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)	22. YEAR COMPLETED	
Polk County Engineering Consulting Services for Parks and Natural Resources and Drainage, Polk County, Florida	PROFESSIONAL SERVICES: Ongoing	CONSTRUCTION (if Applicable): Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER: Polk County	b. POINT OF CONTACT NAME: Jay Jarvis, PE	c. POINT OF CONTACT TELEPHONE NUMBER: 863-535-2239
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*		

WSP was retained by Polk County as a Master Consultant for miscellaneous civil engineering and drainage services. WSP has successfully completed more than 30 task assignments for projects throughout Polk County. This experience has given the WSP team a unique understanding of the conditions throughout the County and the process required for completing multiple projects on time and within budget. Projects completed have included surveying, engineering, permitting, and construction administration services. During the construction, WSP routinely works closely with the County on CEI services including construction administration services on review of shop drawings, materials, onsite observation, contractor coordination, review of contractor pay applications, and final certifications.

Parks and Recreational Facilities

WSP provided various planning, surveying, civil engineering, and construction administration services for multiple projects which included the expansion of recreational facilities, group pavilion additions, playgrounds, and parking areas. The projects involved working in conjunction with several regional and local regulatory agencies including the Florida Department of Environmental Protection, Polk County Health Department, Florida Department of Transportation, City of Lakeland, Polk County, and the Southwest Florida Water Management District. The services WSP provided for these facilities include surveying, overall site development design and permitting, preparation of contract documents, and construction administration.

Transportation Projects

WSP provided professional services to assist the Polk County Transportation Engineering Department with miscellaneous, on-call drainage projects. The projects included preliminary design of roadway and drainage improvements, preparation of construction plans and documents, permitting, and construction phase services to multiple roadways throughout Polk County.

NPDES Outfall Delineations

The primary task of the project was to calculate the gross load pollutants to the major and minor outfalls as determined by the Polk County. WSP approached this task in a methodical and an optimized way by dividing the necessary steps involved in achieving the task into four categories.

- Obtain GIS database which contained relevant project information from the county.
- The basin delineations of the WMPs were used as the basis of drainage area determination for each outfall.
- The finalized drainage area boundaries were used to determine their landuse and soils characteristics for calculating basin runoff to each outfall.
- Pollutant loadings to outfalls were calculated in accordance with Florida Statewide Stormwater Rule.

Lake Gwyn Surface Water Restoration and Flood Protection

WSP assisted Polk County with the restoration of an approximately 45-acre historic wetland that had been ditched and drained through the construction of the Wahneta Farms Drainage Canal (WFDC) in the 1940s. The project was cooperatively funded by Polk County, SWFWMD, and FWC and included wetland restoration of a varied system with deep water, shallow water, and transitional wetland habitats. Additionally, the existing canal was re-routed to hydrate the restored Lake Gwyn area and control structures were designed and constructed to provide additional flood storage capacity to increase flood protection in the surrounding areas. A pedestrian bridge and boardwalk were included to facilitate public usage.

Woodland Area Drainage Improvements

WSP provided comprehensive stormwater analysis, flood routing, modeling and design, as well as construction administration for retrofit of approximately 340-acre drainage area subject to persistent flooding in the Saddle Creek area. The primary causes of the flooding to be addressed were that the area was built in a historic slough; existing storm sewers and ditches were vastly undersized; and the area receives discharge from 150 acres through double 6-feet by 4- feet box culverts draining from FDOT right-of-way with inadequate receiving capacity. WSP designed improved storm sewer system (up to 72 inches equivalent pipes); multiple surge ponds; upgraded box culvert and improved ditches; as well as appropriate wetland mitigation to resolve the flooding concern.

Garden Grove Drainage Improvements

WSP analyzed recurring residential street flooding in a 1970s era neighborhood and provided alternatives analysis of potential solutions. The area was constructed with virtually no storm sewers or conveyances and with no allotment made for large offsite contributing drainage area. The area is “built-out” and eventually drains to an existing wetland area which limited treatment pond location and size options. WSP prepared design plans and provided construction administration for the storm sewer installation and stormwater treatment and attenuation pond construction. Abandoned wastewater treatment plant and ponds were excavated and converted to stormwater treatment ponds with wetland plantings to receive the discharge from the proposed 72-inch equivalent storm sewer draining the flooding area before discharging to the receiving wetland.

Jan Phyl Village Drainage Improvements

WSP provided full services for this neighborhood which had severe roadway flooding due to inadequate infrastructure. Services included design, permitting, plans and specifications preparation, and construction administration assistance. Significant utility adjustments were required and coordinated by our firm, including sanitary sewer main and potable water main adjustments. V developed in-depth pollutant load reduction estimates for Polk County’s MS4 in this impaired basin and assisted in the acquisition of a cooperative funding grant from the Southwest Florida Water Management District.

Project Cost:

$1.2 million

Staff:

Timothy Kelly, PE, CPSWQ, CPESC, David Butcher, PE, LEED AP, Binh Nguyen, PE, CEM, R. Michael Jones, PLS, CFedS, and Christine Mehle, PE, CFM, ENV SP.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	1. FIRM NAME	2. FIRM LOCATION (City and State)	3. ROLE
a.	WSP USA Environment & Infrastructure Inc.	Lakeland, Tampa, Altamonte Springs, Newberry, and Miami Lakes, Florida	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 **9**
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
FDEP Master Parks Consultant, Statewide, Florida	Ongoing	Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Florida Department of Environmental Protection	Michael Foster	850.245.2694

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

WSP is currently providing design, planning, and engineering services to FDEP for several park/recreational facility projects under contract CN204. Similar services were previously provided under contracts DC482, DC755 and DC803.

WSP has developed conceptual alternative plans for the Terra Ceia Boat Ramp facility located in the Terra Ceia Preserve State Park for a boat ramp and floating dock, canoe launch, separate boat trailer and passenger car parking areas and public restrooms. Professional services have included design, hydrologic/hydraulic modeling, geotechnical and environmental investigations, surveying and permitting.

At Weeki Wachee Springs State Park, WSP developed building floor plan sketches for the administration building and provided geotechnical services (soil borings and foundation recommendations) for a ranger station replacement at the Delnor-Wiggins Pass State Park.

WSP was recently retained to conduct the renovation of the existing restroom buildings at the Hugh Taylor Birch State Park in Fort Lauderdale, Florida. Services include architectural and engineering services for the design of the restrooms renovation, including construction documents, permitting, and construction services. Additional services provided include structural assessment of existing structures and survey services. In addition to the traditional design services, and in order to ensure that the client achieved its goals for the project, WSP is providing services that include a detailed assessment of the building envelope and addressing the existing roof, wall, and window systems. We are also providing a comprehensive hazardous materials survey to identify environmental concerns, which would need to be addressed prior to any renovations to the structure. These services include assessments of asbestos-containing building materials, lead-based paint coatings, and other leaded building components. Park permitting tasks have included Columbia County, Suwannee River Water Management District, Florida Department of Transportation and Florida Department of Health.

As part of FDEP's continuing services contract, WSP was also retained to design a new prototype concession/restroom/retail building at Jonathan Dickinson State Park in Hobe Sound, Florida. The design consists of a concession stand, retail space, restrooms facility, concession stand, and covered seating space with a vending area. The design will require the demolition of an existing picnic pavilion/restroom and construction of the new building over the existing building footprint.

WSP is also designing a new administration building at the Delnor Wiggins Pass State Park in Naples, Florida. The project consists of the demolition of the existing three-bay shop building, as well as the Citizen Support Organizations (CSO) meeting room at the five-bay building. Following the demolition, the project includes the design of a new building, which includes approximately 1,700 square feet for the administrative offices, staff room, CSO meeting room, and restrooms. The design of the new building will follow the footprint of the three-bay building.

For both the Jonathan Dickinson and Delnor Wiggins Pass State Parks, WSP's services consist of architectural and engineering services for the design of the administration building, including construction documents, permitting, surveying, geotechnical engineering, and construction administration services. In addition to the traditional design services, and in order to ensure that the client achieved its goals for the project, WSP is providing additional services that include a detailed hazardous materials survey to identify environmental concerns, which would need to be addressed prior to any demolition. These services include assessments of asbestos-containing building materials, leadbased paint coatings, and other leaded building components.

WSP provided services for a segment of the overall Palatka Lake Butler State Trail within Bradford County. The team designed and permitted the construction of a trail bridge to span Sampson Creek, adjacent to CR 225 within Bradford County. The trail bridge was built utilizing the existing abandoned railway approaches at this crossing. Prior to this project, there was no trail connection across Sampson Creek. This project proposed a bridge to join the southeast existing trail to the northeast existing trail, thus re-joining these two severed portions of the Palatka Lake Butler State Trail. Designs for this bridge included square prestressed concrete piles driven as supports for the cast-in-place foundation for the bridge seats. A reinforced approach slab was utilized on each side of the bridge and joined to the cast-in-place concrete foundation with reinforcing steel. A prefabricated bridge superstructure was designed on top of the substructure and joined to span Sampson Creek. WSP services included hydrologic modeling to determine Base Flood Elevation and the low chord of the bridge, wetland flagging and UMAM scoring, T&E species survey, surveying, geotechnical exploration, design, permitting, and development of construction plans for the bridge crossing.

WSP was selected by FDEP to provide architectural/ engineering services for mine reclamation and recreational park development services at a 296-acre former rock mine site, the Ichetucknee Trace Mining Reclamation and State Park in Columbia County, Florida. The rock quarry is situated upland of the Ichetucknee River in Columbia County. WSP began the project by obtaining historic information about the site from existing topographic and bathymetric surveys, a preliminary contamination assessment report, water quality analysis, a land management plan archaeological report, and a listed species survey. Once these documents were reviewed, the team preceded with supplemental data collection and analyses that included a geotechnical site investigation, an asbestos survey for building demolition, a jurisdictional wetland delineation, and surveying.

WSP developed a reclamation plan that restored, to the extent practical, the hydrologic drainage patterns of the site and emphasized ecological benefits within the constraints of the differing mandatory and non-mandatory mine reclamation regulations that applied to differing areas on the site. The project team incorporated existing features, such as hilltop viewpoints and sheer shorelines, into the reclamation for recreational purposes. The reclamation plan also proposed expanding the littoral shelves of the four water bodies to create a wetland habitat, which serves to both create ecologically rich and diverse habitat and to protect water quality by filtering stormwater runoff. We developed a planting plan that specified tree, shrub, and ground-cover species and their respective planting rates for each type of proposed land use on the site. WSP conducted the construction oversight of the mine reclamation, which included coordinating bid documents and assisting the Office of Greenways and Trails with contract awards for construction.

After the mine reclamation phase of the project was completed, WSP conducted design charrettes for the recreational park design phase of the project. FDEP's goal was to transform the property into a public recreational facility. The design included an entrance road design, gatehouse, ranger station, ranger residences, internal paved roadway access, a maintenance shop area, boat ramp with floating boardwalk, floating dive platform and boardwalk, bike trails, paved parking areas with restroom facilities and picnic shelters, pedestrian bridges over waterways, and a swim beach. WSP also prepared the construction drawings for the recreational park plan, which also included the design of a civil site plan, potable water system design including piping infrastructure along with a well design with chlorination system, and sanitary sewer gravity and forcemain infrastructure with lift stations and a sewage/septic system.

At Falling Waters State Park in Chipley, Florida, FDEP tasked WSP to design a trail from the existing parking area to the swimming area restroom facilities to replace a non-ADA compliant existing trail. The scope of work included providing professional land surveying services and developing conceptual plans for a new ADA compliant trail route. After selection of the conceptual plan WSP was tasked to design the trail to include a covered pedestrian bridge, kiosk, trailhead, boardwalk and ADA compliant parking. The plan included two kiosks, a covered bridge, and a boardwalk over a steep ravine and creek. Due to the steep slopes, creek and environmentally-sensitive flora and fauna, top down construction procedures were recommended so that the forest ground level would not be disturbed. The covered bridge serves as an interpretive area with benches overlooking the creek, slope forest and pond. Upon approval of the trail and associated features design, WSP prepared construction bid specifications for the project.

Project Cost:

$2.25 million

Staff:

David Butcher, PE, LEED AP, Charlene Stroehlen, PE, Tiffany Davies, PE, R. Michael Jones, PLS, CFedS, Max Ramos, PLS, Gregory Corning, PE, Shannon McMorrow, PWS, Dustin Atwater, GISP, and Binh Nguyen, PE, CEM.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
1. FIRM NAME		2. FIRM LOCATION (City and State)	3. ROLE
a.	WSP USA Environment & Infrastructure Inc.	Lakeland, Miami Lakes, Newberry, Tallahassee, Jacksonville, and Altamonte Springs, Florida; Kennesaw, Georgia	Prime

D. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS										
NAMES OF KEY PERSONNEL *(From Section E, Block 12)*	**ROLE IN THIS CONTRACT** *(From Section E, Block 13)*	**EXAMPLE PROJECTS LISTED IN SECTION F** *(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)*								
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Gregory Corning, PE	Project Manager	X	X	X	X	X	X	X		X
Christine (Crissy) Mehle, PE, CFM, ENV SP	Principal-in-charge		X		X	X	X		X	
Benny Susi, PE	QA/QC									
James Horton	QA/QC									
David Butcher, PE, LEED AP	Roadway and Transportation Infrastructure Design Lead	X	X						X	X
Tiffany Davies, PE	Roadway and Transportation Infrastructure Design	X	X		X	X	X	X		X
Bryan Anderson, PE	Roadway and Transportation Infrastructure Design									
Ricardo Aguiar	Roadway and Transportation Infrastructure Design									
Timothy Kelly, PE, CPSWQ, CPESC	Drainage/Stormwater Infrastructure Design Lead		X			X			X	
Blake Holcomb, PE	Drainage/Stormwater Infrastructure Design									
Charlene Stroehlen, PE	Drainage/Stormwater Infrastructure Design	X	X	X	X	X	X	X		X
Virginia Glazer, PE	Drainage/Stormwater Infrastructure Design									
Tirrell Day, PE	Structures Design Lead					X	X			
Mark Leon, PE	Structures Design	X					X			
Michelle Daniel, PE	Structures Design									
John Rigrish, PE	Structures Design									
Shannon McMorrow, PWS	Permitting		X		X			X		X
Dylan Horning	Permitting									
Beau Daigneault, GISP	Permitting									
Genevieve Patrick	Permitting									

D. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS										
NAMES OF KEY PERSONNEL *(From Section E, Block 12)*	**ROLE IN THIS CONTRACT** *(From Section E, Block 13)*	**EXAMPLE PROJECTS LISTED IN SECTION F** *(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)*								
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Lee Walton, AICP	Grant/Planning Services Lead									
Brian Ray, AICP, RLA	Grant/Planning Services									
Krista Mott	Grant/Planning Services									
Jennifer Sagan	Grant/Planning Services			X	X					
Jim Hoy, CPE	Cost Estimating/Value Engineering Lead									
Alexander Rojas, PE, AVS, CWI	Cost Estimating/Value Engineering									
Jake Close, PE	Cost Estimating/Value Engineering									
Brian Hathaway, PE	Soil, Materials Testing, and Foundations Lead						X	X		
Wenbin Zhao, PhD, PE	Soil, Materials Testing, and Foundations									
Ahmed Zein, PhD, PE	Soil, Materials Testing, and Foundations									
Dennis Crawford, PE	Soil, Materials Testing, and Foundations									
Dustin Atwater, GISP	GIS/CAD Lead	X	X	X	X	X	X	X		X
Jose Milian	GIS/CAD									
Alan Pixley	GIS/CAD									
Mike Flood, AICP	Climate Adaption/Resiliency Lead									
Catherine Prince, MBA, PMP, LEED AP, STP+	Climate Adaption/Resiliency									
Rebecca Vanderbeck, PE	Climate Adaption/Resiliency									
Nabil Bawany, PE, CFM	Climate Adaption/Resiliency									

D. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS										
NAMES OF KEY PERSONNEL *(From Section E, Block 12)*	**ROLE IN THIS CONTRACT** *(From Section E, Block 13)*	**EXAMPLE PROJECTS LISTED IN SECTION F** *(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)*								
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Todd Boehmer, PE	Construction Engineering and Inspection (CEI) Lead									
Nestor Fernandez	Construction Engineering and Inspection (CEI)							X		
Luis Ponce, PE, CGC	Construction Engineering and Inspection (CEI)									
Timothy Howard, EI	Construction Engineering and Inspection (CEI)	X	X							
Mark Griffith, PE	MEP Lead									
Binh Nguyen, PE, CEM	MEP								X	X
David Sterling, CEM, EI	MEP									
Wendy Bruss, PE	Facility Assessment and Maintenance Lead									
Eric Lasater	Facility Assessment and Maintenance									
Keith Ponitz, CEM	Facility Assessment and Maintenance									
Garrett Sutcliffe, CEM	Facility Assessment and Maintenance									
Chip Gardiner, PLS, CFedS	Surveying Lead	X	X		X					
R. Michael Jones, PLS, CFedS	Surveying		X		X	X	X	X	X	X
Max Ramos, PSM	Surveying	X	X		X					X
Brandon Gaston, CST	Surveying									

D. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS			
NO.	**TITLE OF EXAMPLE** *(From Section F)*	**NO.**	**TITLE OF EXAMPLE** *(From Section F)*
1	FWC Professional Services Contract	6	Monroe County General Architectural and Engineering Services
2	SWFWMD Professional Consulting Services	7	City of Naples Library of Services Contract
3	SRWMD Comprehensive Services	8	Polk County Engineering Consulting Services for Parks and Natural Resources and Drainage
4	SJRWMD Comprehensive Services	9	FDEP Master Parks Consultant
5	Manatee County Marine and Environmental Services		

TAB 5
Project Control/Approach

Project Control/Approach

WSP's Project Manager, Mr. Gregory Corning, PE, will assign a professional services team to each assignment which includes engineers, scientists, environmental specialists, surveyors, construction inspectors, and other specialists to meet the project needs and the expectations of the City.

Mr. Corning will have an active role in the day-to-day operations of each project and will be able to provide the City representatives with specific details of the work items and/or issues as they are occurring. Project updates will be provided at intervals requested by the City's project manager, engineers, and/or representatives. Additionally, Mr. Corning will make site visits and provide on-site technical assistance as needed or requested.

Recommendations for construction materials, placement, and sequencing are addressed as part of our design analyses. Our scientists and engineers are accustomed to providing practical, economical solutions to design issues using on-site materials and common construction techniques to the greatest extent possible. A general description of the scope of work is described in the following paragraphs.

Phase I - Data Collection and Concept Design

Kick-off Meeting/Scoping Meeting

Many design projects begin with a feasibility study to assess numerous alternatives for addressing a particular problem. It is our experience that a project must be scoped and budgeted in a manner that facilitates the consideration of a number of alternatives so that a cost benefit analysis will provide information for a final project concept design.

This task is critical and can facilitate a very successful project when properly executed. The kick-off meeting must ensure that all participating parties state their needs and goals and that the final project objectives established with the consultant are clearly defined and understood by all stakeholders.

Data Collection and Review (Use of Existing Information)

WSP will be proactive in obtaining copies of existing documents or data discussed and summarized at the kickoff meeting that we have not previously acquired. We will review and summarize the data and create a table describing each data source and how the data will be utilized for the project.

Site Reconnaissance

WSP will inspect the project site thoroughly at the onset of the project. However, additional and supplemental inspections will be conducted throughout the project duration and during specific project tasks. Digital photographs of observed conditions will be taken to include in the feasibility report. Depending on the specific assignment, we may also request utilities maps and other relevant information from the City to facilitate this task.

Based on our experience, site visits conducted after certain project stages (such as upon receipt of the site survey, during internal development of alternatives, etc.) can be very useful. This allows the feasibility process to be "adaptive" in nature as new information or ideas often emerge during this process. This is especially important in an urban environment where there will be significant public exposure to the project's elements.

Environmental/Ecological Investigations

Most projects require some level of ecological investigation to determine the existence of listed species, the mean high-water level, and potential for wetland impacts from the project. Our environmental scientists perform these tasks on a daily basis and have used all methods of wetland delineation including aerial delineation, delineation by GPS, and delineation for officially surveyed wetland or other surface water extents. They are experienced with mitigation strategies and familiar with local mitigation banking opportunities.

Geotechnical Investigation

The geotechnical investigation will include collecting sufficient soils data to assess soil engineering properties, existing and seasonal high water table locations, and design constraints that must be considered during project design. Methods and equipment used in obtaining soils samples and geotechnical information will be compatible with the project's design requirements.

Existing Conditions: Water Quality/Water Quantity Modeling

WSP is experienced with numerous surface water, groundwater, and integrated (surface and groundwater) models for conducting hydrologic and hydraulic modeling analysis. If necessary, WSP will create existing conditions surface water models using the appropriate methodology and level of detail required for each project. This modeling will provide estimated peak stages observed near roadways and structures, in existing storm sewers, ponds, water bodies, and sub-basins as well as the baseline reference for comparison between existing and proposed conditions.

If the project is water quality driven, our general approach is to estimate pollutant loads from sub-basins contributing to the project area. Pollutant load estimates will be calculated using land-use based event mean concentrations, impervious areas, and average annual rainfall in general accordance with the methodology proposed in the draft statewide stormwater rule. Design parameters (drainage catchment area, time of concentration, imperviousness, etc.) will be obtained using the most appropriate data (previous documentation by others, field confirmed data, data from aerial and topographic maps, etc.). Parameter selections will be clearly documented in the engineering feasibility study.

Feasibility Study

If required for a specific project, a draft feasibility study will be provided by WSP for review by the City and a follow-up presentation will be made to the City Council if requested. The study will discuss each proposed alternative in detail. The draft feasibility report will be submitted in narrative format and will include conceptual plans, cost estimates for each alternative, a 20-year life present worth cost estimate, an evaluation of the anticipated permitting difficulties, estimated operational costs, and maintenance requirements that may be associated with the alternative.

Phase II - Final Design and Permitting

Coordination with Regulatory Agencies Prior to the 60% plans submittal, WSP will attend preapplication meetings with the appropriate agencies to discuss the chosen alternative(s). WSP will bring the appropriate maps including site aerials, topographic maps, soil information, wetlands maps, and conceptual drawings, and prepare a specific agenda for the meeting calling out questions such as jurisdiction, jurisdictional delineation methods, project specific permit criteria, areas of special concern, modeling requirements, proposed submittal package format, and other items that would be advantageous to address prior to initiating design. The preapplication process is also a forum for taking advantage of the give and take that exists in the permitting process, and we will negotiate with the agencies for permitting criteria that meets project objectives while satisfying agency requirements. Meeting minutes will be developed and distributed for comment.

WSP managers know that conducting a productive preapplication meeting, where initial acceptance is obtained from regulatory staff and then documented via formal meeting minutes is time well spent, saving our client valuable time and dollars by avoiding repeated requests for additional information from the agencies. Our goal is to submit a permit application that is complete and organized so that the reviewer can easily agree that the project design meets agency permitting criteria. We will follow up the application submittal with a telephone call to the reviewer so that minor questions, which otherwise may become written requests for information, can be directly answered and no written requests are issued.

Permits: Application Submittal, Responses, and Permit Acquisition

WSP will prepare and submit necessary permitting documents and supporting information using the 60% plan set. WSP will incorporate City comments on the draft permit packages and will then deliver the application documents to the regulatory agency. If any agency

responds with comments, WSP will contact the agencies immediately upon receipt of the initial comments to ascertain the exact needs of the permit application reviewers. An additional meeting will be attended with the agencies should further clarification be required.

Preparation of Construction Plans and Specifications

Plans will be in conformance to acceptable standards of draftsmanship. WSP typically uses the FDOT Plans Preparation Manual as the basis for plans production. However, specific elements required by the City (such as City standard details and material specifications) will be incorporated into the plans.

Plans and cost estimates will be submitted to the City for review at the 30%, 60%, and 90% design levels. Comments by the City and permitting agencies will be reviewed and addressed.

WSP understands the importance of clear details and notes particularly when a project is going out to bid. Attention to this detail minimizes change orders during the construction process and adds value to City projects.

For example: it is important to include notes that require the contractor to reflect time for utility relocation in his schedule, to submit detailed as-built drawings for all elements of the project concurrently with the final pay request, and to include sufficient review time for all elements of the project construction.

Public Information Meeting

WSP is equipped to participate in a formal public meeting with staff, elected officials, business owners, and citizens of the City as required for each project. To support these meetings, WSP will provide graphic display exhibits, such as aerial photographs and various design elements to stimulate questions and peak interest in the project. We also routinely provide 8.5 by 11-inch copies of project information sheets to be used as handouts.

Phase III - Construction Services

Pre-Bid Conference

WSP will conduct a pre-bid conference with the goal of providing the potential bidders a clear description of the project and the specific elements of the plans. We will also prepare any necessary addenda during the question/answer period. WSP will assist the City with evaluation of the bids, recommendation of award, notification of award, and notice to proceed.

Pre-Construction Meeting

WSP will conduct a pre-construction meeting to ensure a successful kickoff for the project construction phase. It is WSP's goal to establish the importance of a team philosophy between the City, the consultant(s), and the contractor to facilitate the project throughout the construction process. The meeting agenda will include a description of the project, contact information, and project roles for each representative, critical project dates, normal work hours, permit information, subcontractor supplier list, testing firm, and a list of preliminary submittals such as a maintenance of traffic plan, construction schedule, shop drawings, and schedule of values.

Review of Shop Drawings

WSP will review the contractor's schedule and shop drawings for compliance with the design plans. WSP uses the shop drawing review as an extra level of quality assurance. By carefully comparing the plans against the shop drawings, this review confirms the ordered structures match the project needs.

Construction Management

WSP can provide daily construction oversight, or less frequent on-site construction site visits as appropriate for each project. In either case, our contract manager will be available to provide rapid responses to any questions that may arise. Should a WSP representative notice deviations from the design plans during such visits, WSP will notify the City project manager immediately via the telephone and then in writing within four hours.

Substantial Completion Inspection

WSP will participate with the City during the substantial completion review and develop a punch list of items required for project completion. The Contractor is expected to construct the project to the design specifications and within allowable tolerances.

Final Acceptance Inspections and Project Certifications

WSP will participate in the final inspection of the project with City staff. Once the constructed work is acceptable to all parties, the Contractor will supply WSP with certified as-builts. WSP will incorporate the as-built information from the surveyor with a certification of completion (and other required documents) for the project to the appropriate agencies.

General Administration Phase

Progress Meetings

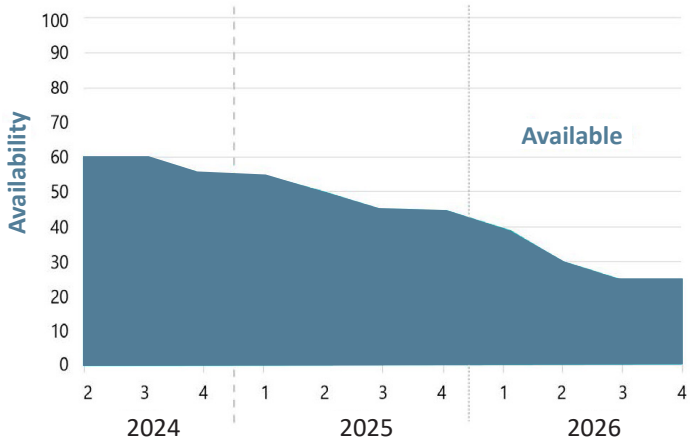
WSP will attend progress/review meetings throughout the duration of the project. Minutes of all of the meetings will be provided within 48 hours of the meeting. The minutes will reflect agenda items, action items, who is to provide what follow-up, the original schedule, current schedule, and an explanation of how delays will be addressed (if applicable). Additionally, WSP will conduct weekly internal meetings with the design team throughout the duration of the project.

Construction Inspection and Quality Assurance

We will develop and implement a construction quality assurance/quality control plan to document and verify that the construction activities meet the requirements of the project plans and specifications. Two important components of construction inspection are timely reporting of compliance testing results and accurate, systematic tracking of any deficiencies and subsequent repairs in the work. We have completed construction inspection on many major construction projects and have developed tracking systems and reporting protocols using a system of spreadsheets for maintaining field and laboratory test data and results.

Team Availability

The team has ample capacity, at any given time, to support North Port with this contract. The staff members proposed for this assignment will be available daily to provide services indicated in the RFQ, and individual staff members' hours can and will be adjusted as dictated by project needs and in accordance with the project work plan and schedule. Our team's current workload and projected forward for six months for the key members of the project team is reflected in the manpower availability graph.



TAB 6
References

References

WSP Business References			
Client Name and Contact Person	Contact Information	Completion Date and Cost	Description of Work
City of Naples Christopher Lienhardt *Water Quality Project Manager*	735 8th Street South Naples, FL 34102 (239) 213-5000 (p) (239) 213-5050 (f) clienhardt@naplesgov.com	**Year Completed:** 2018 **Engineer's Opinion of Probable Cost:** $1,154,489 **Final Construction Cost:** $1,047,540	WSP was contracted by the City of Naples to provide engineering services for the Lake Manor Restoration project, which included dredging, recontouring of the littoral zone, and creation of a recreational/educational area. Lake Manor is a 4- to 5-acre lake, located in a residential neighborhood.
Monroe County Board of County Commissioners Rhonda Haag *Chief Resiliency Officer*	102060 Overseas Highway, Suite 246 Key Largo, Florida 33037 (305) 395-9928 (p) (305) 292-4544 (f) haag-rhonda@monroecounty-fl.gov	**Year Completed:** Ongoing **Engineer's Opinion of Probable Cost:** $7,812,357 **Final Construction Cost:** $7,777,715	As part of the Monroe County Canal Restoration Program, WSP completed the design, permitting, and construction oversight for six demonstration projects, which were completed to evaluate the feasibility and cost of implementation of the technologies selected as part of Phase II of the Canal Management Master Plan. Data collection consisting of bathymetric surveying, geotechnical sampling, tidal studies, and polymer performance testing was completed as needed to facilitate design. WSP worked closely with Monroe County to increase involvement with stakeholders, both homeowners and government agencies, to help ensure that the implementation of the projects caused minimal disruption to homeowners and the environment.
Manatee County Natural Resources Department Sherri Swanson, PWS, GTA *Ecological & Marine Resources Division Manager*	5502 33rd Ave Dr W, Bradenton, Fl 34209 (941) 792-8811 ext 8073 (p) N/A (f) sherri.swanson@mymanatee.org	**Year Completed:** Ongoing **Engineer's Opinion of Probable Cost:** $600,000 **Final Construction Cost:** Approximately $1 million to date	The design intent for this project was to provide a replacement of the existing timber framed dock supported on timber piles with a wood framed guardrail system in the same footprint. The existing footprint was investigated to determine applicability with ADA standards in order to eliminate the need for extensive reconstruction of the facilities. The docks will supplement a recreational boat launching site in a protected waterway where the primary loading component will be vertical as opposed to a high impact structure subjected to heavy surf action and lateral loads from open water and commercial boat use. The docks will be designed to the standards set forth for boarding docks, which means a portion of a dock where a boat is temporarily secured for the purpose of embarking or disembarking.

References

WSP Business References			
Client Name and Contact Person	Contact Information	Completion Date and Cost	Description of Work
Sarasota County Jason K. Brown *Stormwater Operations Manager*	1660 Ringling Blvd. Sarasota, FL 34236 (941) 861-0823 (p) N/A (f) jkbrown@scgov.net	**Year Completed:** Ongoing **Engineer's Opinion of Probable Cost:** $750,000 **Final Construction Cost:** Approximately $1 million to date	The project(s) under this continuing environmental and engineering contract includes project management, civil, structural, coastal, mechanical and electrical, environmental, geotechnical, survey, construction management and inspections.
Collier County Tony Barone, PMP *Division of Facilities Management Principal Project Manager*	3299 Tamiami Trail E, Naples, FL 34112 (239) 252-8696 (p) N/A (f) Tony.Barone@colliercountyfl.gov	**Year Completed:** Ongoing **Engineer's Opinion of Probable Cost:** $1,761,254 **Final Construction Cost:** $2,223,000	WSP provided CEI services on parks and aquatics projects, master planning services on 2 – 1000 acre properties that the county will develop in eastern Collier County, roofing designs at multiple county facilities, our architectural group is developing their new vertical design standards, providing mechanical design services replacing HVAC system at the EEOC facility, and other general engineering services.

ATTACHMENT 3 - REFERENCES/CLIENT LISTING

Include at least five (5) business related references for which they are currently providing or have provided within the last ten (10) years, services similar to the scope of services required by this RFP. A minimum of three (3) references must be for work performed in Florida.

1. Business/Customer Name: City of Naples

   Name of Contact Person/Title: Christopher Lienhardt, Water Quality Project Manager

   Telephone# (239) 213-5000 E-mail clienhardt@naplesgov.com

   Address 735 8th Street South, Naples, FL 34102

   Phone Number (239) 213-5000

   Duration of Contract or business relationship 2 years (ongoing) Project completion date: 2018

   Type of Services Provided Topographic and bathymetric surveying, sediment sampling and analysis, ecological and engineering site condition assessments, engineering, permitting, and CEI/CA.

   Cost of Project: Design $1,154,489 Construction: $1,047,540

2. Business/Customer Name: Monroe County Board of County Commissioners

   Name of Contact Person/Title: Rhonda Haag, Chief Resiliency Officer

   Telephone# (305) 395-9928 E-mail haag-rhonda@monroecounty-fl.gov

   Address 102060 Overseas Highway, Suite 246, Key Largo, Florida 33037

   Phone Number (305) 395-9928

   Duration of Contract or business relationship 10 years (ongoing) Project completion date: Ongoing

   Type of Services Provided Topographic and bathymetric surveying, sediment sampling and analysis, ecological and engineering site condition assessments, engineering, permitting, and CEI/CA.

   Cost of Project: Design $7,812,357 Construction: $7,777,715

3. Business/Customer Name: Manatee County Natural Resources Department

   Name of Contact Person/Title: Sherri Swanson, PWS, GTA, Ecological & Marine Resources Division Manager

   Telephone# (941) 792-8811 E-mail sherri.swanson@mymanatee.org

   Address 5502 33rd Ave Dr W, Bradenton, Fl 34209

   Phone Number (941) 792-8811 ext 8073

   Duration of Contract or business relationship 7 years (ongoing) Project completion date: Ongoing

   Type of Services Provided Topographic and bathymetric surveying, sediment sampling and analysis, ecological and engineering site condition assessments, engineering, and permitting.

   Cost of Project: Design $600,000 Construction: $1 million to date

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

4. Business/Customer Name: Sarasota County

Name of Contact Person/Title: Jason K. Brown Stormwater Operations Manager

Telephone# (941) 861-0823 E-mail jkbrown@scgov.net

Address 1660 Ringling Blvd., Sarasota, FL 34236

Phone Number (941) 861-0823

Duration of Contract or business relationship 9 years (ongoing) Project completion date: Ongoing

Type of Services Provided Project management, civil, structural, coastal, mechanical and electrical, environmental, geotechnical, survey, construction management, and inspections.

Cost of Project: Design $750,000 Construction: $1 million

5. Business/Customer Name: Collier County

Name of Contact Person/Title: Tony Barone, PMP, Division of Facilities Management Principal Project Manager

Telephone# (239) 252-8696 E-mail Tony.Barone@colliercountyfl.gov

Address 3299 Tamiami Trail E, Naples, FL 34112

Phone Number (239) 252-8696

Duration of Contract or business relationship 5 years (ongoing) Project completion date: Ongoing

Type of Services Provided Project management, CEI services, engineering, surveying & GIS, geotechnical, landscape architecture, structural assessments, and permitting.

Cost of Project: Design $1,761,254 Construction: $2,223,000

COMPANY NAME: WSP USA Inc.

SIGNATURE:

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

ATTACHMENT 4

REFERENCE AND PERFORMANCE QUESTIONAIRRE VERIFICATION FORM

RFP 2024-14 Professional Engineering Services – Continuing Services for City of North Port
It is the intent of the City of North Port to request proposals from experienced and qualified firms for professional engineering services for the City of North Port.

1. Contractor Information (Proposer information)

FIRM NAME: WSP USA, Inc.

ADDRESS: 5411 Sky Center Drive, Suite 650, Tampa, Florida 33607

Telephone number#: 314.920.8359

E-mail: greg.corning@wsp.com

Point of Contact Greg Corning **Contact Phone Number** 314.920.8359

2. Worked Performed as _✓_ **Prime** _____**Sub Contractor** _____**Joint Venture** ____**Other (Explain)**
Percent of project work performed 100 **%**
If Subcontractor, who was the prime (Name/Phone #) _____

3. CONTACT INFORMATION

Contract Number: 2019-00093

Contract Type: X Firm Fixed Price _____Cost Reimbursement _____Other (please specify):_____

Contract Title:
On Call Engineering and Environmental Services

Contract Location:
City of Naples, Florida

Award Date (mm/dd/yy) 09/11/2015

Actual Completion Date: Ongoing

Original Contract Price (Award Amount): Varies by task order, approximately $2 Million to date

Final Contract Price (to include all modifications, if applicable): N/A

Explain the Difference: N/A

4. PROJECT DESCRIPTION: Complexity of Work _____HIGH _☑_ MED _____ROUTINE

How is this project relevant to project submission?

The project(s) under this continuing engineering contract includes project management, civil, structural, mechanical and electrical, environmental, geotechnical, survey, construction management and inspections.

5. CLIENT INFORMATION

Name: Christopher Lienhardt **Title:** Water Quality Project Manager

Name of Entity: City of Naples

Phone Number: 239-213-7123 **E-Mail:** clienhardt@naplesgov.com

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	☑ YES OR ☐ NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: _____	☑ YES OR ☐ NO
3. Were any problems encountered with the company's work performance? If yes, please describe: _____	☐ YES OR ☑ NO
4. How long did the company/individual work for you?	Years: _____ Months: 2 years
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	9
6. If the opportunity were to present itself, would you rehire this company? If no, please state why:_____	☑ YES OR ☐ NO
7. Date Questionnaire completed	(mm/dd/yy) 02/20/2024

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional pages):_____

_____

_____

Christopher Lienhardt

Digitally signed by Christopher Lienhardt
Date: 2024.02.26 14:29:13 -05'00'

Signature

INSTRUCTIONS:

PROPOSER WILL SEND THIS FORM TO EACH REFERENCED CLIENT LISTED ON ATTACHMENT 3. THE CLIENT IS TO COMPLETE THIS FORM AND RETURN DIRECTLY BACK TO THE PROPOSER. THE PROPOSER WILL SUBMIT THE COMPLETED FORM WITH THEIR PROPOSAL. IT IS THE PROPOSER'S RESPONSIBILITY TO OBTAIN AND SUBMIT ALL COMPLETED FORMS WITH THEIR PROPOSAL PACKAGE.

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THE CITY RESERVES THE RIGHT TO VERIFY ANY AND ALL INFORMATION ON THIS FORM.

NOTE: IF COMPLETED REFERENCES ARE NOT RETURNED TO PURCHASING, IT MAY AFFECT THE EVALUATION RATING.

ATTACHMENT 4

REFERENCE AND PERFORMANCE QUESTIONAIRRE VERIFICATION FORM

RFP 2024-14 Professional Engineering Services – Continuing Services for City of North Port
It is the intent of the City of North Port to request proposals from experienced and qualified firms for professional engineering services for the City of North Port.

1. Contractor Information (Proposer information)

FIRM NAME: WSP USA, Inc.

ADDRESS: 5411 Sky Center Drive, Suite 650, Tampa, Florida 33607

Telephone number#: 314.920.8359

E-mail: greg.corning@wsp.com

Point of Contact Greg Corning **Contact Phone Number** 314.920.8359

2. Worked Performed as _✓_ **Prime** _____**Sub Contractor** _____**Joint Venture** ____**Other (Explain)**
Percent of project work performed 100 **%**
If Subcontractor, who was the prime (Name/Phone #) _____

3. CONTACT INFORMATION

Contract Number: Monroe County Canal Restoration Program

Contract Type: X Firm Fixed Price _____Cost Reimbursement _____Other (please specify):_____

Contract Title:
On Call Engineering and Environmental Services

Contract Location:
Monroe County, Florida

Award Date (mm/dd/yy) 05/21/2014

Actual Completion Date: Ongoing

Original Contract Price (Award Amount): Varies by task order, approximately $3 Million to date

Final Contract Price (to include all modifications, if applicable): N/A

Explain the Difference: N/A

4. PROJECT DESCRIPTION: Complexity of Work _____HIGH _☑_ MED _____ROUTINE

How is this project relevant to project submission?

The project(s) under this continuing engineering contract includes project management, civil, structural, mechanical and electrical, environmental, geotechnical, survey, construction management and inspections.

5. CLIENT INFORMATION

Name: Rhonda Haag **Title:** Chief Resilience Officer

Name of Entity: Monroe County

Phone Number: 305-395-9928 **E-Mail:** haag-rhonda@monroecounty-fl.gov

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	☑ YES OR ☐ NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: _____ _____ _____	☑ YES OR ☐ NO
3. Were any problems encountered with the company's work performance? If yes, please describe: _____ _____ _____	☐ YES OR ☑ NO
4. How long did the company/individual work for you?	Years: _____ 10 years Months: _____
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	9
6. If the opportunity were to present itself, would you rehire this company? If no, please state why:_____	☑ YES OR ☐ NO
7. Date Questionnaire completed	(mm/dd/yy) 02/20/2024

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional pages):_____
_____
_____

Rhonda Haag Digitally signed by Rhonda Haag Date: 2024.02.20 17:03:12 -05'00'

Signature

INSTRUCTIONS:

PROPOSER WILL SEND THIS FORM TO EACH REFERENCED CLIENT LISTED ON ATTACHMENT 3. THE CLIENT IS TO COMPLETE THIS FORM AND RETURN DIRECTLY BACK TO THE PROPOSER. THE PROPOSER WILL SUBMIT THE COMPLETED FORM WITH THEIR PROPOSAL. IT IS THE PROPOSER'S RESPONSIBILITY TO OBTAIN AND SUBMIT ALL COMPLETED FORMS WITH THEIR PROPOSAL PACKAGE.

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ATTACHMENT 4
REFERENCE AND PERFORMANCE QUESTIONAIRRE VERIFICATION FORM

RFP 2024-14 Professional Engineering Services – Continuing Services for City of North Port
It is the intent of the City of North Port to request proposals from experienced and qualified firms for professional engineering services for the City of North Port.

1. Contractor Information (Proposer information)

FIRM NAME: WSP USA, Inc.

ADDRESS: 5411 Sky Center Drive, Suite 650, Tampa, Florida 33607

Telephone number#: 314.920.8359

E-mail: greg.corning@wsp.com

Point of Contact Greg Corning **Contact Phone Number** 314.920.8359

2. Worked Performed as _☑_ **Prime** _____**Sub Contractor** _____**Joint Venture** ____**Other (Explain)**
Percent of project work performed ___100___**%**
If Subcontractor, who was the prime (Name/Phone #) _____

3. CONTACT INFORMATION

Contract Number: 17-1253MS & 22-R079384ED

Contract Type: X Firm Fixed Price _____Cost Reimbursement _____Other (please specify):_____

Contract Title:
Professional Environmental and Marine Engineering Services

Contract Location:
Manatee County, Florida

Award Date (mm/dd/yy) 10/17/2017

Actual Completion Date: Ongoing

Original Contract Price (Award Amount): Varies by task order, approximately $1 Million to date

Final Contract Price (to include all modifications, if applicable): N/A

Explain the Difference: N/A

4. PROJECT DESCRIPTION: Complexity of Work _____HIGH _☑_ MED _____ROUTINE

How is this project relevant to project submission?

The project(s) under this continuing environmental and engineering contract includes project management, civil, structural, coastal, mechanical and electrical, environmental, geotechnical, survey, construction management and inspections.

5. CLIENT INFORMATION

Name: Sherri Swanson, PWS, GTA **Title:** Ecological and Marine Resources Division Manager

Name of Entity: Manatee County

Phone Number: 941-792-8811 ext 8073 **E-Mail:** sherri.swanson@mymanatee.org

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	☑ YES OR ☐ NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: _____ _____ _____	☑ YES OR ☐ NO
3. Were any problems encountered with the company's work performance? If yes, please describe: _____ _____ _____	☐ YES OR ☑ NO
4. How long did the company/individual work for you?	Years: _____ 1 years Months: _____
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	9
6. If the opportunity were to present itself, would you rehire this company? If no, please state why:_____	☑ YES OR ☐ NO
7. Date Questionnaire completed	(mm/dd/yy) 02/20/2024

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional pages):_____
_____
_____

CITY OF NORTH PORT
REQUEST FOR PROPOSAL NO. 2024-14 PROFESSIONAL ENGNEERING SERVICES - CONTINUING SERVICES CONTRACTS FOR CITY OF NORTH PORT

Charlie Hunsicker _____

INSTRUCTIONS:

PROPOSER WILL SEND THIS FORM TO EACH REFERENCED CLIENT LISTED ON ATTACHMENT 3. THE CLIENT IS TO COMPLETE THIS FORM AND RETURN DIRECTLY BACK TO THE PROPOSER. THE PROPOSER WILL SUBMIT THE COMPLETED FORM WITH THEIR PROPOSAL. IT IS THE PROPOSER'S RESPONSIBILITY TO OBTAIN AND SUBMIT ALL COMPLETED FORMS WITH THEIR PROPOSAL PACKAGE.

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ATTACHMENT 4
REFERENCE AND PERFORMANCE QUESTIONAIRRE VERIFICATION FORM

RFP 2024-14 Professional Engineering Services – Continuing Services for City of North Port
It is the intent of the City of North Port to request proposals from experienced and qualified firms for professional engineering services for the City of North Port.

1. Contractor Information (Proposer information)

FIRM NAME: WSP USA, Inc.

ADDRESS: 5411 Sky Center Drive, Suite 650, Tampa, Florida 33607

Telephone number#: 314.920.8359

E-mail: greg.corning@wsp.com

Point of Contact Greg Corning **Contact Phone Number** 314.920.8359

2. Worked Performed as _☑_ **Prime** _____**Sub Contractor** _____**Joint Venture** ____**Other (Explain)**
Percent of project work performed 100 **%**
If Subcontractor, who was the prime (Name/Phone #) _____

3. CONTACT INFORMATION

Contract Number: 2016-169 & 2022-150

Contract Type: X Firm Fixed Price _____Cost Reimbursement _____Other (please specify):_____

Contract Title:
Continuing Professional Consulting Services

Contract Location:
Sarasota County, Florida

Award Date (mm/dd/yy) 12/22/2015

Actual Completion Date: Ongoing

Original Contract Price (Award Amount): Varies by task order, approximately $1 Million to date

Final Contract Price (to include all modifications, if applicable): N/A

Explain the Difference: N/A

4. PROJECT DESCRIPTION: Complexity of Work _____HIGH _☑_ MED _____ROUTINE

How is this project relevant to project submission?

The project(s) under this continuing environmental and engineering contract includes project management, civil, structural, coastal, mechanical and electrical, environmental, geotechnical, survey, construction management and inspections.

5. CLIENT INFORMATION

Name: Jason K. Brown **Title:** Stormwater Operations Manager

Name of Entity: Sarasota County

Phone Number: 941-861-0823 **E-Mail:** jkbrown@scgov.net

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	☑ YES OR ☐ NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: _____ _____ _____	☑ YES OR ☐ NO
3. Were any problems encountered with the company's work performance? If yes, please describe: _____ _____ _____	☐ YES OR ☑ NO
4. How long did the company/individual work for you?	Years: _____ Months: 1 year
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	9
6. If the opportunity were to present itself, would you rehire this company? If no, please state why:_____	☑ YES OR ☐ NO
7. Date Questionnaire completed	(mm/dd/yy) 02/22/2024

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional pages):_____
_____
_____

_____

_____

_____

Jason K Brown Digitally signed by Jason K Brown Date: 2024.02.22 06:58:44 -05'00'

Signature

INSTRUCTIONS:

PROPOSER WILL SEND THIS FORM TO EACH REFERENCED CLIENT LISTED ON ATTACHMENT 3. THE CLIENT IS TO COMPLETE THIS FORM AND RETURN DIRECTLY BACK TO THE PROPOSER. THE PROPOSER WILL SUBMIT THE COMPLETED FORM WITH THEIR PROPOSAL. IT IS THE PROPOSER'S RESPONSIBILITY TO OBTAIN AND SUBMIT ALL COMPLETED FORMS WITH THEIR PROPOSAL PACKAGE.

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ATTACHMENT 4

REFERENCE AND PERFORMANCE QUESTIONAIRRE VERIFICATION FORM

RFP 2024-14 Professional Engineering Services – Continuing Services for City of North Port
It is the intent of the City of North Port to request proposals from experienced and qualified firms for professional engineering services for the City of North Port.

1. Contractor Information (Proposer information)

FIRM NAME:	WSP USA, INC. (SERVICES PREVIOUSLY PROVIDED AS WOOD E & I, INC.)
ADDRESS:	4850 TAMIAMI TRAIL N., SUITE 301 NAPLES, FLORIDA 34103
Telephone number#:	(305) 586-6594
E-mail:	NESTOR.FERNANDEZ@WSP.COM

Point of Contact NESTOR FERNANDEZ **Contact Phone Number** (305) 586-6594

2. Worked Performed as X **Prime** ____ **Sub Contractor** ____ **Joint Venture** ____ **Other (Explain)**
Percent of project work performed 100 **%**
If Subcontractor, who was the prime (Name/Phone #) ____

3. CONTACT INFORMATION

Contract Number: 18-7469 CEI - 4500193339

Contract Type: TM Firm Fixed Price ____ Cost Reimbursement ____ Other (please specify): ____

Contract Title: Big Corkscrew Island Regional Park

Contract Location: Naples, Florida

Award Date (mm/dd/yy) January 3, 2019

Actual Completion Date: September 25, 2023

Original Contract Price (Award Amount): $1,761,254

Final Contract Price (to include all modifications, if applicable): $2,223,000

Explain the Difference: Project experienced delays due to the Covid 19 pandemic and subsequent material

4. PROJECT DESCRIPTION: Complexity of Work X **HIGH** _____ **MED** _____ **ROUTINE**

How is this project relevant to project submission?

Architectural and engineering reviews completed on this project of all disciplines demonstrated the firm's ability to bring subject matter experts to the service of the project and the firms ability to manage the project demonstrated the depth of their bench and ability to manage complex project functions.

5. CLIENT INFORMATION

Name: TONY BARONE, PMP **Title:** PRINCIPAL PROJECT MANAGER

Name of Entity: DIVISION OF FACILITIES MANAGEMENT, COLLIER COUNTY

Phone Number: (239) 252-8696 **E-Mail:** TONY.BARONE@COLLIERCOUNTYFL.GOV

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	☑ YES OR ☐ NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: Yes, WSP provided all the necessary consultant resources to the project and went out of their way to assist the County and project through a challenging time.	☑ YES OR ☐ NO
3. Were any problems encountered with the company's work performance? If yes, please describe:	☐ YES OR ☑ NO
4. How long did the company/individual work for you?	Years: 5 Months: 1
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	10
6. If the opportunity were to present itself, would you rehire this company? If no, please state why:	☑ YES OR ☐ NO
7. Date Questionnaire completed	(mm/dd/yy) 02/22/24

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional pages): WSP provided a level of service beyond expectations and contributed greatly to the County's interests throughout the project. I would highly recommend this firm on any design, engineering, CEI or other consulting service.

BaroneTony Digitally signed by BaroneTony
Date: 2024.02.22 21:35:16 -05'00'

Signature

INSTRUCTIONS:

PROPOSER WILL SEND THIS FORM TO EACH REFERENCED CLIENT LISTED ON ATTACHMENT 3. THE CLIENT IS TO COMPLETE THIS FORM AND RETURN DIRECTLY BACK TO THE PROPOSER. THE PROPOSER WILL SUBMIT THE COMPLETED FORM WITH THEIR PROPOSAL. IT IS THE PROPOSER'S RESPONSIBILITY TO OBTAIN AND SUBMIT ALL COMPLETED FORMS WITH THEIR PROPOSAL PACKAGE.

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TAB 7
Litigation and Insurance

Litigation

WSP USA Inc. (WSP) is a large international services company and as such, there are inevitably civil disputes arising from time to time with private and public sector clients. While details of these disputes are confidential, we can confirm that there are no disputes or litigation of any kind that individually or collectively will have a material effect upon the quality of WSP's performance and its ability to provide services for this contract.

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 6/7/2023

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

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

PRODUCER
Arthur J. Gallagher Risk Management Services, LLC
300 Madison Avenue, 28th Floor
New York NY 10017

License#: BR-724491

CONTACT NAME:
PHONE (A/C, No. Ext): 212-994-7100 **FAX (A/C, No):** 212-994-7047
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Zurich American Insurance Company	16535
INSURER B : Liberty Insurance Corporation	42404
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
WSP USA Inc.
One Penn Plaza
New York, NY 10119

WSPGLOB-01

COVERAGES **CERTIFICATE NUMBER:** 1338228750 **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC OTHER:			GLO 9835819-10	5/1/2023	5/1/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ 3,500,000 $ 3,500,000 $ 10,000 $ 3,500,000 $ 7,000,000 $ 4,000,000 $
B	**AUTOMOBILE LIABILITY** X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY			AS7-621-094060-033	5/1/2023	5/1/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 5,000,000 $ $ $ $
	UMBRELLA LIAB OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION $						EACH OCCURRENCE AGGREGATE 	$ $ $
B B B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? **(Mandatory in NH)** Y / N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		WA7-62D-094060-013 WA7-62D-095609-073 WC7-621-094060-913	5/1/2023 5/1/2023 5/1/2023	5/1/2024 5/1/2024 5/1/2024	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 2,000,000 $ 2,000,000 $ 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
THIRTY (30) DAYS NOTICE OF CANCELLATION.

CERTIFICATE HOLDER

AS A MATTER OF RECORD

CANCELLATION

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

ACORD 25 (2016/03) **The ACORD name and logo are registered marks of ACORD**

TAB 8
Additional Information

We Are Advancing Energy Transition

WSP is at the forefront of the energy transition to create a zero-carbon future.

We are advancing the energy transition through comprehensive services across the project life cycle. Our experts across the U.S. and abroad are leaders in the development and execution of permitting strategies to help clients navigate all project stages, from planning through post construction operations.

Our renewable energy center of excellence combines organizational structures of managers, specialists, engineers and technicians with multidisciplinary leadership and specialties.

We are focused, experienced and skilled in civil, structural, electrical, geotechnical, mechanical and hydraulic engineering for the energy sector. Our innovative and efficient documentation management system saves time and effort while maintaining the highest standards of quality.

WSP is a leading provider of program mamanegement and technical services to the energy market.

WSP provides comprehensive services to generate and distribute energy from water, sun, wind, biomass, soil, compost, waste and various types of surplus energy. We work on forward-looking tasks and provide comprehensive solutions for microgrids, central utility plants, utility-scale offshore wind, underground hydrogen storage, renewable energy and battery storage systems.

WSP helps clients across all energy sectors unlock opportunities to meet the rising demand for power, maintain secure/reliable energy supplies, reduce greenhouse gas emissions and deliver future energy schemes to create a sustainable world.

Our global network of dedicated energy specialists, environmental consultants and multidisciplinary engineers understand the connection between power and the natural environment. We work with owners, operators and lenders to maximize assets, improve efficiencies and translate the latest process technologies into workable designs.

We bring the skills, scale and financial backing that you expect of a large professional services firm with the level of personal attention, innovation and entrepreneurship you might anticipate from a small consultancy. Our extensive experience spans traditional power generation to emerging renewable technologies.

We offer cost-effective solutions to optimize operations. We understand what success looks like and work closely to achieve desired outcomes and strategies to implement the highest standards of quality.

Leveraging AI for Water and Resilient Infrastructure

The exponential growth of data plays a critical role for AI's success. In today's world, data is being generated at an unprecedented rate — a trend that is going to continue across the globe.

Another significant driver of the recent rise in AI is the growing availability of cloud computing. Cloud-based platforms allow a flexible and cost-effective way to access the computational power required to run large AI algorithms.

The current status of infrastructure in the U.S. has been the focus of discussions in recent years. The $1 trillion Bipartisan Infrastructure Law (previously known as the Infrastructure Investment and Jobs Act) puts special focus on water related infrastructure.

The need to invest in infrastructure is becoming increasingly pressing, particularly in the face of climate change. Extreme weather events including flooding and sea level rise are putting our infrastructure at risk, and without significant investment, many communities will be left vulnerable to the impacts of climate change. This includes not only the risk of damage to infrastructure during extreme weather events, but also the increased costs of maintaining and operating infrastructure in a changing climate.

AI and emerging technologies will play a key role in these efforts. Beyond just using typical pattern recognition or finding trends from historical data, AI has a lot to offer that will redefine the future of water infrastructure planning and management.

Here are five ways AI is going to change the future of water and infrastructure in the U.S. and around the globe:

1. Predictive Maintenance for Water Supply - AI can help predict equipment failures and maintenance needs, leading to improved uptime and reduced downtime. A number of local municipalities and agencies across the U.S. have implemented AI systems that detect potential equipment failures in real time, allowing maintenance teams to address issues before they cause a problem.

2. Future Flood Risk Prediction - Mother Nature can be extremely complex when it comes to flooding. The classical practice of future flood risk determination was based upon "past performance" or historical data.

AI has added new dimension to future flood risk detection for complex predictive modeling. Numerous pilot studies are being conducted nationwide where the AI can "learn" using previously completed modeling instead of just historical data and "predict" the flood risk for more complex areas with multiple risk factors. This allows the authority in charge to take preemptive measures to protect its infrastructure and citizens by helping mitigate flooding impact.

3. Water Quality - AI can analyze future water quality patterns using similar results and data from sensors to identify changes in water quality, which can be indicative of contamination or other issues. This enables the local agency to have preplanned action plans ready to respond to issues such as harmful algae blooms or other contaminants.

4. Sustainability and Energy Optimization - AI can optimize energy usage in water treatment and distribution, reducing costs and carbon emissions.

Water treatment and distribution require significant amounts of energy, making them an ideal candidate for optimization through the use of AI. AI can be utilized for predicting future demand in treatment and distribution network by analyzing historical water usage patterns. AI can also be used to optimize the distribution network itself.

By analyzing flow rates, pressure, and other data, AI can identify areas of the network that are over- or underutilized. This can serve as a decision support system to adjust the network and ensure that water is distributed efficiently, reducing energy consumption and carbon emissions.

5. Asset and Water Resource Management - AI can help manage and prioritize infrastructure assets, ensuring their proper maintenance and replacement. It can also help conserve water by optimizing irrigation and reducing wastage.

I. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	
31. Signature	**32. DATE**
	February 29th, 2024
33. Name and Title	
Gregory Corning, Project Manager	

TAB 9
Submission Requirements and Required Submittal Forms

33. Name and Title. Self-explanatory.

REQUIREMENTS AND METHOD OF SUBMITTAL

TAB 9 - CITY REQUIRED FORMS – This checklist is provided to assist each Proposer in the preparation of their response. Included in this ***checklist*** are important requirements, which is the responsibility of each Proposer to submit with their response in order to make their response fully compliant. It is the responsibility of each Proposer to read and comply with the solicitation in its entirety.

A. REQUIRED SUBMITTAL FORMS: Provide fully executed forms.

_X_ **ATTACHMENT 1:** Proposal Submittal Signature Form

_X_ **ATTACHMENT 2:** Statement of Organization

_X_ **ATTACHMENT 3:** References/Client Listing

_X_ **ATTACHMENT 4:** Reference and Performance Questionnaire Verification Form

_X_ **ATTACHMENT 5:** Drug-Free Workplace

_X_ **ATTACHMENT 6:** Public Entity Crime Information

_X_ **ATTACHMENT 7:** Non-Collusive Affidavit

_X_ **ATTACHMENT 8:** Lobbying Certification

_X_ **ATTACHMENT 9:** Conflict of Interest Form

_X_ **ATTACHMENT 10:** Disclosure Form (Consultant/Engineer/Architect)

_X_ **ATTACHMENT 11:** Scrutinized Company Certificate

_X_ **ATTACHMENT 12:** Vendor's Certification For E-Verify System

_X_ **ATTACHMENT 13**: Certification Regarding Debarment, Suspension, and other Responsibility Matters

_X_ **ATTACHMENT 14:** Certification Regarding Lobbying - Federal

_X_ **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.

____**DBE/MBE/WBE/VBE:** If claiming either Minority Business Enterprise/Women Business Enterprises/Veteran 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 STATUS AS PRIME ONLY
____**YES,** I'VE ATTACHED THE CERTIFICATE OF MBE/WBE STATUS FROM THE STATE OF FLORIDA AS OUTLINED SECTION 1.

_X_NOT CLAIMING DBE/MBE/WBE /VBE

PLEASE INITIAL AND RETURN WITH YOUR PROPOSAL. _____. THIS PAGE MUST BE COMPLETED AND REURNED WITH PROPOSAL.

B. METHOD OF SUBMITTAL:

1. **NUMBER OF SUBMITTAL PACKAGES:** One (1) original hard-copy **UNBOUND** (marked **"ORIGINAL"**) with signature in blue ink. **NUMBER OF COPIES:** three (3) hard copies **BOUND** (marked **"COPY"**).
   (1 original + 3 copies = 4 total submittals).

2. **NUMBER OF PAGES:** The proposal **shall not exceed** twenty -two **(22)** one-sided pages or eleven **(11)** double-sided pages in length**. (*The Title Page, City Required Forms, 330 Form, resumes and tabs do not count towards the TOTAL NUMBER OF PAGES).***

   2.1 When compiling a response, sections should be tabbed and labeled; pages should be sequentially numbered at the bottom of the page; proposals should be bound to allow flat stacking for easy storage; **do not use three ring binders of any kind**; and sections should be compiled in the sequence list above.

   2.2 Place proposal with all the required items in a sealed envelope clearly marked for specification number, project name, name of proposer, and due date and time.

3. **PAPER/FONT SIZE:** Letter size 8.5"x11"/Font Calibri 11, PDF FORMAT.

4. **USB FLASH DRIVE:** One (1) electronic version in Portable Document Format (PDF) **on a USB Drive only** containing the entire submittal. **CDs will not be accepted.**

5. **SUBMIT SEALED PROPOSAL PACKAGE WITH THE FOLLOWING INFORMATION CLEARLY MARKED ON THE OUTSIDE PACKAGING (FedEx, UPS, USPS, etc.): "RFP NO. 2024-14 PROFESSIONAL ENGINEERING SERVICES – CONTINUING SERVICES CONTRACTS FOR CITY OF NORTH PORT"** to the address below:

   City of North Port
   Finance Department - Purchasing Division
   Ginny Duyn, CPPB, Senior Purchasing Administrator
   4970 City Hall, 3 RD Floor, Suite 337
   North Port, Florida 34286

Note: Submissions received after the due date and time stated on the Notice of Availability or subsequent Addenda will not be accepted.

ATTACHMENT 1
PROPOSAL SUBMITTAL SIGNATURE FORM

The undersigned attests to his/her authority to submit this proposal and to bind the firm herein named to perform as per Agreement if the firm is awarded the Agreement by the City.

The undersigned further certifies that he/she has read the Request for Proposal, Terms and Conditions, Insurance Requirements and any other documentation relating to this request and this proposal is submitted with full knowledge and understanding of the requirements and time constraints noted herein.

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

Addendum No. 1	Dated 2/1/24	Addendum No. 4	Dated 2/16/24
Addendum No. 2	Dated 2/5/24	Addendum No. 5	Dated 2/26/24
Addendum No. 3	Dated 2/9/24	Addendum No. _____	Dated _____

Company Name WSP USA Inc.

(212) 465-5000	complianceusa@wsp.com	(212) 465-5096
Telephone #	**E-Mail**	**Fax #**

One Penn Plaza, 4th Floor
Main Office Address

New York	New York	10119
City	**State**	**Zip Code**

Address of Office Servicing City of North Port, if different than above: ☐ ***SAME AS ABOVE***

5411 Sky Center Drive, Suite 650
Office Address

Tampa	Florida	33607
City	**State**	**Zip Code**

(314) 920-8359	greg.corning@wsp.com	N/A
Telephone #	**E-mail**	**Fax #**

Greg Corning, Project Manager
Name & Title of Firm Representative

February 29th, 2024
Signature **Date**

Do you accept Visa? ☐ **YES** ☒ **NO**

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

ATTACHMENT 2
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: WSP USA Inc.

DBA (if any): Not applicable

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

Business Address: 5411 Sky Center Drive, Suite 650, Tampa, Florida, 33607

Phone: (314) 920-8359 **Fax:** N/A

E-Mail greg.corning@wsp.com

Print Name and Title of person authorized to bind: Greg Corning, Project Manager

Federal Identification Number: 11-1531569

Signature: _____

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

(Please Check One)

Is this a Florida Corporation: ☐ Yes or ☒ No

If not a Florida Corporation,
In what state was it created: New York
Name as spelled in that State: WSP USA Inc.

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.: 829626

Does it use a registered fictitious name: ☐ Yes or ☒ No

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

Names of Officers:

President: David J. Odeh **Secretary:** Hillary F. Jasseu

Executive **Vice President:** Lewis P. Cornell **Treasurer:** Andrew C. Esposito

Director: David J. Odeh **Director:** Dennis J. Baker

Director ~~**Other:**~~ Gregory P. Benz **Other:** _____

Name of Corporation (As used in Florida):

WSP USA Inc.

(Spelled exactly as it is registered with the state or federal government)

Corporate Address:

Post Office Box: _____
City, State Zip: _____
Street Address: One Penn Plaza, 4th Floor
City, State, Zip: New York, New York 10119

STATE OF _____
COUNTY OF _____

Sworn to and subscribed before me this____ day of _____, 2024 , by _____who ☐ is personally known to me or ☐ has produced his/her driver's license as identification.

_____
Notary Public - State of Florida
Print Name: _____
Commission No: _____

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

ATTACHMENT 5
DRUG FREE WORKPLACE FORM

The undersigned Consultant in accordance with Florida Statute 287.087 hereby certifies that WSP USA Inc. (Company Name) does:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).

4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.

5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.

6. Make a good faith effort to continue to maintain a drug free workplace through implementation of this section.

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

February 29th, 2024
Date

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ATTACHMENT 6
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, Gregory Corning, being an authorized representative of the Respondent, WSP USA Inc., located at 5411 Sky Center Drive, Suite 650

City: Tampa State: Florida Zip Code: 33607, 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: _____ Date: February 29th, 2024

Telephone #: (314) 920-8359 Fax #: N/A

Federal ID #: 11-2531569

STATE OF _____
COUNTY OF _____

Sworn to and subscribed before me this____ day of _____, 2024, by_____
who ☐ is personally known to me or ☐ has produced his/her driver's license as identification.

_____
Notary Public - State of Florida

Print Name: _____

Commission No: _____

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

ATTACHMENT 7
NON-COLLUSIVE AFFIDAVIT

State of Florida

County of _____ } SS.

Before me, the undersigned authority, personally appeared:
Gregory Corning who, being first duly sworn, deposes and says that:

1. He/She is the Representative (Owner, Partner, Officer, Representative or Agent) of WSP USA Inc., 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 29th **day of** February**, 20**24**.**

By: _____

Gregory Corning
(Printed Name)
Project Manager
(Title)

STATE OF _____
COUNTY OF _____

Sworn to and subscribed before me this____ day of _____, 2024, by _____who ☐ is personally known to me or ☐ has produced his/her driver's license as identification.

_____
Notary Public - State of Florida
Print Name: _____
Commission No: _____

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

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ATTACHMENT 8
LOBBYING CERTIFICATION

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

STATE OF _____

COUNTY OF _____

This 29th day February of 2024

Gregory Corning, being first duly sworn, deposes and says that he or she is the authorized representative of WSP USA Inc. (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 29th **day of** February **, 20**24.

By: _____

Gregory Corning
(Printed Name)
Project Manager
(Title)

STATE OF _____
COUNTY OF _____
Sworn to (or affirmed) and subscribed before me by means of ___ physical presence or ___online notarization, this _____ day of _____ 2024, by _____.

_____
Notary Public – State of _____

Personally Known _____ OR Produced Identification _____
Type of Identification Produced _____

THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH PROPOSAL.

ATTACHMENT 9
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: WSP USA Inc.

SIGNATURE: _____

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

ATTACHMENT 10

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: WSP USA Inc.

NAME (PERSON AUTHORIZED TO BIND THE COMPANY): Gregory Corning

SIGNATURE: _____ **DATE:** February 29th, 2024

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

ATTACHMENT 11
SCRUTINIZED COMPANY CERTIFICATION FORM

Contractor Name: WSP USA Inc.
Authorized Representative Name and Title: Gregory Corning
Address: 5411 Sky Center Drive, Suite 650 City: Tampa State: FL ZIP: 33607
Phone Number: (314) 920-8359 Email Address: greg.corning@wsp.com

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

X This 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:

_____
Signature of Contractor's Authorized Representative

Gregory Corning
Name

Project Manager
Title

February 29th, 2024
Date

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

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ATTACHMENT 12
VENDOR'S CERTIFICATION FOR E-VERIFY SYSTEM

The undersigned Vendor/Consultant/Contractor (Vendor), after being duly sworn, states the following:

1. Vendor is a person or entity that has entered into or is attempting to enter into a contract with the City of North Port (City) to provide labor, supplies, or services to the City in exchange for salary, wages or other renumeration.

2. Vendor has registered with and will use the E-Verify System of the United States Department of Homeland Security to verify the employment eligibility of:

    a. All persons newly hired by the Vendor to perform employment duties within Florida during the term of the contract; and

    b. All persons, including sub-contractors, sub-vendors or sub-consultants, assigned by the Vendor to perform work pursuant to the contract with the City.

3. If the Vendor becomes the successful Contractor who enters into a contract with the City, then the Vendor will comply with the requirements of Section 448.095, Fla. Stat. "Employment Eligibility", as amended from time to time.

4. Vendor will obtain an affidavit from all subcontractors attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien as defined in 8 United States Code, Section 1324A(H)(3).

5. Vendor will maintain the original affidavit of all subcontractors for the duration of the contract.

6. Vendor affirms that failure to comply with the state law requirements can result in the City's termination of the contract and other penalties as provided by law.

7. Vendor understands that pursuant to Florida Statutes, section 448.095, the submission of a false certification may result in the termination of the contract if one is entered into, and may subject the Vendor named in this certification to civil penalties, attorney's fees and costs.

VENDOR: WSP USA Inc. (Vendor's Company Name)

Certified By: _____
AUTHORIZED REPRESENTATIVE SIGNATURE

Print Name and Title: Gregory Corning, Project Manager

Date Certified: February 29th, 2024

THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH PROPOSAL.

ATTACHMENT 13
CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS
PRIMARY COVERED TRANSACTIONS

This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000.

The Contractor certifies that, neither the firm nor any person associated therewith in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, and/or position involving the administration of federal funds:

(a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions, as defined in 49 CFR s29.110(a), by any federal department or agency;

(b) has within a three-year period preceding this certification been convicted of or had a civil judgment rendered against it for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state, or local government transaction or public contract; violation of federal or state antitrust statutes; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) is presently indicted for or otherwise criminally or civilly charged by a federal, state, or local governmental entity with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) has within a three-year period preceding this certification had one or more federal, state, or local government public transactions terminated for cause or default.

The Contractor certifies that it shall not knowingly enter into any transaction with any subcontractor, material supplier, or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this project by any federal agency unless authorized by the City of North Port.

The Contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

This certification is a material representation of fact relied upon by the City of North Port. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the City of North Port, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer.

The Contractor further agrees to include a provision requiring such compliance in its lower tier covered transactions.

WSP USA Inc.	11-1531569	05-666-8700
Company Name (Contractor)	Tax ID Number	DUNS Number

Gregory Corning	
Authorized Representative Name	Authorized Representative Signature

11-1531569	05-666-8700	5D213
Federal Issued Tax Identification Number (If Social Security number DO NOT enter)	DUNS Number	CAGE Code issued through www.sam.gov

DATE: February 29th, 2024

THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH PROPOSAL.

ATTACHMENT 14

- CERTIFICATION REGARDING LOBBYING-FEDERAL

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

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

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

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

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The Contractor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

_____
Signature of Contractor's Authorized Representative

Gregory Corning
_____
Name

Project Manager
_____
Title

February 29th, 2024
_____
Date

THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH PROPOSAL.

END OF PART IV

5411 Sky Center Drive
Suite No. 650
Tampa, Florida 33609

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