



PROPOSAL

Continuing Contracts for Survey & Mapping Services

City of Port St. Lucie

Solicitation Process in Accordance with F.S. 287.055 Competitive Consultants' Negotiations Act (CCNA)

SUBMITTED TO:



SUBMITTED BY: **LANGAN**

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01

TAB 1 - FIRM QUALIFICATIONS

Cover Page

Response Number & Title:	Continuing Contracts for Survey & Mapping Services Solicitation Process in Accordance with F.S. 287.055 Competitive Consultants' Negotiations Act (CCNA) E-RFP Number: 20230097
Due Date / Time:	September 22, 2023 3:00 p.m. ET
Submitted by:	Langan Engineering & Environmental Services, Inc. 525 Okeechobee Blvd, Suite 910 West Palm Beach, FL 33401
Respondent's Contact Information:	Name: Joseph Romano , PSM Email: jromano@langan.com Phone: 973.560.4618
Official Issuing Officer (Procuring Agent)	Name: Robyn Holder, CPPB Email: rholder@cityofpsl.com
Deliver to:	City of Port St. Lucie



Corporate Summary

Integrated Solutions. Measurable Value.

Langan provides an integrated mix of engineering and environmental consulting services in support of land development projects, corporate real estate portfolios, and the oil and gas industry. Our clients include developers, property owners, public agencies, corporations, institutions, and energy companies around the world.



1,500
employees



52 years
in business



6 international
office locations



Carbon Neutral



5 Florida
office locations

West Palm Beach

525 Okeechobee Blvd.
Suite 910
West Palm Beach, FL
33401

Orlando

13485 Veterans Way
Suite 120
Orlando, FL 32827

Fort Lauderdale

110 E Broward Blvd.
Suite 1500
Fort Lauderdale, FL
33301

Miami

1221 Brickell Avenue
Suite 1800
Miami, FL 33131

Tampa

400 N Ashley Drive
Suite 2175
Tampa, FL 33602

Officers:

Joseph Romano, Paul Fisher,
Shaun Higgins, Andy Ives

Annual Volume of Work over past Five (5) Years:

\$10M to \$25M

Company Ownership:

100% of the stock of Langan Engineering and Environmental Services, Inc. is owned by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan DPC). No one shareholder of Langan DPC owns 10% or more of its stock.

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

Continuing Contracts for Survey & Mapping Services

2. PUBLIC NOTICE DATE

September 2023

3. SOLICITATION OR PROJECT NUMBER

20230097

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Joseph Romano, PSM, Principal/Vice President

5. NAME OF FIRM

Langan Engineering and Environmental Services, Inc.

6. TELEPHONE NUMBER

800.952.6426

7. FAX NUMBER

8. E-MAIL ADDRESS

jromano@langan.com

C. PROPOSED TEAM

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

	<i>(Check)</i>			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J.V. PARTNER	SUBCON-TRACATO			
a.	X			Langan Engineering and Environmental Services, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	525 Okeechobee Blvd, Suite 910 West Palm Beach, FL 33401	Surveying and Mapping Services
b.	X			Langan Engineering and Environmental Services, Inc <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1221 Brickell Avenue Suite 1800. Miami, FL 33131	Surveying and Mapping Services
c.	X			Langan Engineering and Environmental Services, Inc <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	13485 Veterans Way Suite 120. Orlando, FL 32827	Surveying and Mapping Services
d.	X			Langan Engineering and Environmental Services, Inc <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	400 N Ashley Drive, Suite 2175, Tampa, FL 33604	Surveying and Mapping Services
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
g.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

Organizational Chart



"A City for All Ages"

Joseph Romano, PSM
Principal / Vice-President

Bryan Merritt, PSM
Contract Project Manager

**Surveying &
Mapping Services**

Bryan Merritt, PSM
Ronnie Figueroa, PSM, GISP, CST IV
Gary McDaniel, PSM
Diego Arboleda, CST I
Juan J. Jimenez
Maria Londono

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Joseph Romano, PSM	13. ROLE IN THIS CONTRACT Principal/VP	14. YEARS EXPERIENCE	
		a. TOTAL 41	b. WITH CURRENT FIRM 41
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering & Environmental Services, Parsippany, NJ			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> A.S., Construction Technology, 1989		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Land Surveyor: FL, NY, NJ, CT, DC	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Florida Survey and Mapping Society; New York State Association of Professional Land Surveyors; New Jersey Society of Professional Land Surveyors; Connecticut Association of Land Surveyors, Inc.; National Society of Professional Surveyors; American Congress on Surveying and Mapping			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
a.	Miami Marine Stadium Miami, FL	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Langan utilized our Unmanned Aerial System (UAS) to acquire color aerial photography to create planimetric and topographic mapping at a scale of 1"=50', with 1' contour intervals. In order to produce mapping and surveying grade data products with the verifiable positional accuracy, 5 ground control targets were placed within the boundaries of the project area. Utilizing the 5 ground control points acquired for this project Langan performed an aerial triangulation process to generate interior and exterior photo parameters for the accurate horizontal and vertical placement of the aerial imagery within the project coordinate system. From the properly oriented imagery a Digital Surface Model (DSM) was generated and delivered as well as a 3D point cloud. A digital orthophoto mosaic with a 1" Ground Sample Distance (GSD) was also be produced. The 3D point cloud then integrated with the Static LiDAR point cloud and imported into Revit for BIM modeling and also into Recap for mesh modeling and rendering of the site.		
b.	Faena Bazaar "Atlantic Beach Hotel" Miami Beach, FL	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Langan has provided environmental consulting, geotechnical engineering, and laser scanning services for this mixed-use project. The Faena Bazaar, a renovation of the historic Atlantic Beach Hotel built in 1939 and designed by prominent Miami Beach architect Roy France, preserves and restores the existing lobby and facades while reprogramming the building for retail.		
c.	Ultimate I-4 Expansion Orlando, FL	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Langan provided mobile mapping, video logging, field video capture, and geospatial data integration services in support of the major expansion of a 21-mile stretch of U.S. I-4, which includes the addition of four new express lanes, and reconstructed interchanges and bridges. Langan's scope consisted of the documentation of all existing conditions prior to the start of construction, including every exit and entrance ramp, overpass and underpass, and everything within the right-of-way and 100 feet beyond, which includes hundreds of houses. Langan delivered full project video documentation in the form of the Pegasus's imagery for all the traveled lane miles viewable by using the Leica Pegasus Viewer that runs as an add-on to Esri's ArcGIS Explorer. In addition to the video logging, Langan collected hundreds of high definition field videos of the suspect areas. Langan integrated these GPS referenced videos into the final ArcGIS Explorer deliverable for a full project workflow.		
d.	Pier 66 Hotel Fort Lauderdale, FL	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Survey grade scan to BIM for existing conditions survey of historic hotel and roof top restaurant on the 17 th Street Causeway.		
e.	Port Authority of New York and New Jersey On-Call Surveying New York, New York	1996-Present	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Survey Project Manager - On-Call boundary, topographic utility layout and other types of survey/scanning in support of PANYNJ projects.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Bryan A. Merritt, PSM, PLS	13. ROLE IN THIS CONTRACT Sr Project Manager/GIS Manager	14. YEARS EXPERIENCE	
		a. TOTAL 40	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering and Environmental Services, Fort Lauderdale, Florida			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> AAS/Civil Engineering, Monroe Community College		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> NY/Professional Land Surveyor FL/Professional Land Surveyor & Mapper FAA/Remote Pilot (Part 107)	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Bryan Merritt, has over 40 years of professional surveying experience and has been managing projects for local governmental agencies such as Palm Beach County; Miami-Dade County; St. Lucie County; SFWMD; Florida DOT Districts 4 and 6 as well as multiple Towns and Villages throughout South Florida since 2005. His experience in land surveying ranges from traditional survey tasks to advanced mapping technologies. As Manager of Surveying for the State of Florida, Mr. Merritt is very active in promoting land surveying and has been a guest speaker at numerous conferences. He is part of curriculum advisory board at Florida Atlantic University Geomatics Engineering program.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
a.	Village of Royal Palm Beach, Contract for General Surveying Services, Royal Palm Beach, FL	2003-2018	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>Project Manager. This contract covered a wide range of general surveying, including baseline stakeout, ground control surveying, boundary surveys, right-of-way surveys, topographic surveys to create digital terrain models, cross-section surveys, wetland location surveys, field stake-out of test boring, GPS surveys, mapping and verification surveys, control surveys, plat reviews, and construction surveys. All work performed in accordance with applicable Minimum Technical standards and procedures. Over 100 work orders completed to date including Engineering/Topographic Surveys; ROW/Boundary Surveys; Plat Reviews; and GIS services.</p>		
b.	Village of Royal Palm Beach, Contract for GIS Services Royal Palm Beach, FL	2013-2015	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm
	<p>Project/GIS Manager. GIS Data Collection Services to incorporate newly constructed or modified features into the Village's GIS schema, which enabled Village to add this data to the GIS database. As a part of its GIS program, the Village works to continually update and maintain accurate GIS data for critical infrastructure layers. Layers include property boundaries, impervious surfaces, buildings, roadways, stormwater features, water utilities and wastewater features.</p>		
c.	Doral Shopping Center Doral, FL	2019	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	<p>Project Manager. Unmanned Aerial System acquisition for the purpose of planimetric, topographic and orthophoto generation for ALTA/NSPS Land Title survey for the transfer of ownership of a 25-acre commercial/shopping plaza. Project included boundary analysis and mapping to 2016 ALTA standards and meeting section 5J-17 of the Florida Administrative Code</p>		
d.	Poitras Surveying and Platting Orlando, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	<p>Project Manager. Topographic survey of a 2,000-acre undeveloped residential property. Project included Airborne LiDAR acquisition and data processing , ground control survey as well as Mobile LiDAR and conventional surveys to form the basis of design for the a combination of new residential housing and commercial development</p>		
e.	Formula 1 at Dolphins Stadium Miami Gardens, FL	2019	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

	<p>Project Manager. Conduct a topographic survey and DTM utilizing multiple surveying techniques. We combined Mobile Mapping (LIDAR), terrestrial LiDAR, and traditional surveying methodologies at the Hard Rock Stadium grounds in Miami, FL. The survey was needed for the design and modeling for the new Formula 1 race track. Project included setting approximately 350 targets to be used for horizontal and vertical survey control. Integrating mobile mapping, terrestrial scanning of the stadium along with conventional survey methods to provide a complete surface model of the 240+ acre site. In addition to the ground survey, nearly 500 underground utility structures we as-built for depth and pipe size.</p>		
f.	(1) TITLE AND LOCATION <i>(City and State)</i> Royal Palm Beach Plat Reviews Royal Palm Beach, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009-2018	CONSTRUCTION (if Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Project Manager. Mr. Merritt provided review services in the role of reviewing surveyor for plats being submitted to the Village of Royal Palm Beach. The plats are reviewed to confirm they meet Florida State Statues Chapter 177 Part I Platting requirements as well as the code of ordinances for the Village of Royal Palm Beach under Chapter 22 Subdivision of Land and any requirements of Palm Beach County that apply. There is a Preliminary plat review component as well as a Final plat review component for each plat that is submitted for review. Bryan Merritt signs and seals each plat as the reviewer once all requirements are met.</p>		
g.	(1) TITLE AND LOCATION <i>(City and State)</i> Royal Caribbean HQ at PortMiami Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION (if Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Project Manager. Master planning of the Royal Caribbean Cruise Line HQ. The project is comprised of a leased parcel of approximately 23 acres. Topographic survey was required along with sketch and legal descriptions of the property to develop the lease parcel. Special security clearances were required of the field staff. A Transportation Worker Identification Credential, or TWIC card along with a special Port Id badged were required for all staff. A special UAV permit was also acquired to fly the project with a drone.</p>		
h.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Homestead FEMA Homestead, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if Applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Project Manager. Under Langan's continuing services contract for the City of Homestead we provided professional surveying services to complete a FEMA Flood Elevation Certificate for an existing pump station owned by the City. We will complete an Elevation Certificate FEMA Form O.M.B. No. 1660-008 for the existing building. This required access to both the interior and exterior of the building, including lowest interior floor level. Close coordination with the City was required to obtain access. The elevations were derived form a conventional level loop based upon Miami-Dade County benchmarks.</p>		
i.	(1) TITLE AND LOCATION <i>(City and State)</i> St. Lucie Landfill Royal Palm Beach, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (if Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Project Manager. Topographic survey of a 450-acre County Landfill. Project included recovery and targeting of the existing ground control network and UAS image acquisition for the purpose of planimetric, topographic and orthophoto mapping as well as volumetric calculations for three active landfill cells within the project area.</p>		
j.	(1) TITLE AND LOCATION <i>(City and State)</i> Sparrow Drive Bridge Royal Palm Beach, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (if Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Project Manager. Performed a Topographic Survey for along the North side of the Sparrow Drive bridge between Park Road North and Sparrow Place. Topographic Survey consisted of all above ground utilities(including attached to bridge), Guardrails, storm structures, sidewalks, barrier walls, pier and abutments, curbs, road striping within the survey limits as provided by the Village. Information included the elevation of low opening/chord of the existing bridge and top of pier. No underwater elevations will be collected. Deliverable will be an ASCII points file.</p>		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Gary McDaniel, PSM	13. ROLE IN THIS CONTRACT Project Surveyor	14. YEARS EXPERIENCE	
		a. TOTAL 11	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering & Environmental Services, Tampa, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Physical Science Education		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Surveyor and Mapper: FL	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> FAA Remote Pilot - sUAS			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> Formula 1 at Hard Rock Stadium Miami Gardens, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Surveyor. Conduct Mobile Mapping (LIDAR) of the Hard Rock Stadium grounds in Miami, FL for creating a DTM to be used for modeling a Formula 1 race track. Project included setting approximately 350 targets to be used for horizontal and vertical survey control. Integrating mobile mapping with conventional survey methods to provide a complete surface model of the 240+ acre site. My role was to help establish the horizontal and vertical control network that would be used to georeference the mobile mapping and other conventional survey work, as well as performing the conventional survey work.		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Boundary and Topographic Survey – Commercial Site Jacksonville, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Surveyor. Provide boundary and topographic mapping for a 12 acre commercial parcel for re-development. I was responsible for the boundary determination and resolving the conflicts between three separate deeds that made up the parcel and the adjoining deeds.		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Vinoy Hotel St. Petersburg, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Surveyor. Conduct 3D Laser scanning of the grounds at the Vinoy Hotel for the site redesign to support engineering design. Responsible for the field data collection and mapping of the extracted features.		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Boundary and Topographic Survey – Commercial Site Boca Raton, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Surveyor. Provide boundary and topographic mapping for a 12 acre commercial parcel for re-development. I was responsible for the boundary determination and topographic mapping of the site.		
e.	(1) TITLE AND LOCATION <i>(City and State)</i> NASA Crawler Transporter Roadway Cape Canaveral, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Surveyor. Provide real time monitoring of the Crawler Transporter during load testing. Project consists of setting control points along the 4-mile crawlerway and measuring the location of the Crawler as it moves down the road while reporting those measurements and comparing them to prior measurements of the road bed in real time. I am responsible for the design and implementation of the control layout and measurement procedures as well as being part of the team that makes the measurements during the test.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Ronnie A. Figueroa PSM, GISP, CST IV	13. ROLE IN THIS CONTRACT Project Manager	YEARS EXPERIENCE	
		a. TOTAL 21	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering and Environmental Services, Inc., Orlando, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. Business Management, Stetson University M.S. Business Management, Stetson University		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Land Surveyor, FL (PSM #6997)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Ronnie Figueroa has over 20 years of experience in land surveying and mapping and over 17 years of experience with GIS. He has experience in all aspects of surveying including Plats, Boundary Surveys, Topographic Surveys, ALTA Boundary Surveys, Hydrographic Surveys, PD&E Surveys, Right of Way Surveys, Control Surveys, LiDAR, Utility Surveys and Tree Surveys.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	Lake Nona MUP Survey	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor This project was comprised of Structure and Utility Mapping for the Lake Nona Development.		
b.	Kennedy Space Center Crawler Way (NASA)	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor In this multiphase project a combination of mobile and terrestrial LiDAR with conventional ground survey was used to survey the NASA crawler way A, B and C. A survey was also performed of the limerock base within the crawler way and a DTM of the paved roads were also provided.		
c.	Poitras Fire Station ALTA	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor This project was comprised of an ALTA Survey, performed for the City of Orlando, in Lake Nona for a Fire Station in Tavistock Development's latest project phase.		
d.	Poitras Community Park ALTA	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor This project was comprised of an ALTA Survey, performed for the City of Orlando, in Lake Nona for a City Park in Tavistock Development's latest project phase.		
e.	Osprey Landing (1401 Duskin Ave.)	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor Performed a Boundary, Right of Way and Topographic Survey for the design of a multi-unit assisted living facility.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Diego Arboleda, CST 1	13. ROLE IN THIS CONTRACT Staff Surveyor	YEARS EXPERIENCE	
		a. TOTAL 6	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering and Environmental Services, Inc., Miami, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> A.A. Civil Engineering, Miami-Dade College		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Certified Survey Technician (CST) Level 1	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Arboleda is a dedicated certified surveyor technician with more than five years of experience in CAD and LiDAR (Laser Scanning). His experience includes construction, topographic, ALTA boundary surveys and specific as-built surveys for a domestic and international projects.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	Village of Royal Palm Beach MSA	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm Staff Surveyor This contract covered a wide range of general surveying, including baseline stakeout, ground control surveying, boundary surveys, right-of-way surveys, topographic surveys to create digital terrain models, cross-section surveys, wetland location surveys, field stake-out of test boring, GPS surveys, mapping and verification surveys, control surveys, plat reviews, and construction surveys. All work performed in accordance with applicable Minimum Technical standards and procedures. Over 100 work orders completed to date including Engineering/Topographic Surveys; ROW/Boundary Surveys; Plat Reviews; and GIS services.		
b.	St. Lucie Baling Facility Volumes	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm Staff Surveyor This project consisted of professional surveying services for the annual volumetric survey and mapping of the St. Lucie Landfill. This includes 3D mapping from new aerial photography, ground survey to orientate aerial photography, and volumetric calculations comparing current mapped areas against past models.		
c.	St. Lucie Baling Facility Phase V	2018 - 2022	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm Staff Surveyor Project included topographic survey, soil boring stakeout, soil boring as-built, well survey and stormwater survey – inverts.		
d.	Legoland Flight School Expansion, Winter Haven, FL	2023	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm Staff Surveyor Project included topographic survey and subsurface utility designation. This was for an expansion to an inverted steel roller coaster which opened in 2011.		
e.	Taylor Dairy Road Site, Fort Pierce, FL	2021 - 2023	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm Staff Surveyor For this municipal project, scope included reviewing previous topographic and boundary mapping from the county, determining locations and elevations of existing conditions for new construction, subsurface utility designation, show wetland & endangered species, update tree survey, and convert survey information to digital terrain modeling format for use on AutoCAD.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Juan J. Jimenez	13. ROLE IN THIS CONTRACT Staff Surveyor	YEARS EXPERIENCE	
		a. TOTAL 8	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering and Environmental Services, Inc., Miami, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> A.S. Civil Engineering Technology, CUNY Staten Island B.S. Economics, CUNY Staten Island		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Land Surveyor	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> TBD			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	Village of Royal Palm Beach MSA	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor This contract covered a wide range of general surveying, including baseline stakeout, ground control surveying, boundary surveys, right-of-way surveys, topographic surveys to create digital terrain models, cross-section surveys, wetland location surveys, field stake-out of test boring, GPS surveys, mapping and verification surveys, control surveys, plat reviews, and construction surveys. All work performed in accordance with applicable Minimum Technical standards and procedures. Over 100 work orders completed to date including Engineering/Topographic Surveys; ROW/Boundary Surveys; Plat Reviews; and GIS services.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	St. Lucie Baling Facility Volumes	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor This project consisted of professional surveying services for the annual volumetric survey and mapping of the St. Lucie Landfill. This includes 3D mapping from new aerial photography, ground survey to orientate aerial photography, and volumetric calculations comparing current mapped areas against past models.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	St. Lucie Baling Facility Phase V	2018 - 2022	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor Project included topographic survey, soil boring stakeout, soil boring as-build, well survey and stormwater survey – inverts.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	Legoland Flight School Expansion, Winter Haven, FL	2023	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor Project included topographic survey and subsurface utility designation. This was for an expansion to an inverted steel roller coaster which opened in 2011.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	Taylor Dairy Road Site, Fort Pierce, FL	2021 - 2023	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor For this municipal project, scope included reviewing previous topographic and boundary mapping from the county, determining locations and elevations of existing conditions for new construction, subsurface utility designation, show wetland & endangered species, update tree survey, and convert survey information to digital terrain modeling format for use on AutoCAD.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Maria Londono	13. ROLE IN THIS CONTRACT Staff Surveyor	YEARS EXPERIENCE	
		a. TOTAL 3	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering and Environmental Services, Inc., Miami, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. Surveying & Topography		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Land Surveyor	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> TBD			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	Village of Royal Palm Beach MSA	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor This contract covered a wide range of general surveying, including baseline stakeout, ground control surveying, boundary surveys, right-of-way surveys, topographic surveys to create digital terrain models, cross-section surveys, wetland location surveys, field stake-out of test boring, GPS surveys, mapping and verification surveys, control surveys, plat reviews, and construction surveys. All work performed in accordance with applicable Minimum Technical standards and procedures. Over 100 work orders completed to date including Engineering/Topographic Surveys; ROW/Boundary Surveys; Plat Reviews; and GIS services.		<input checked="" type="checkbox"/> Check if project performed with current firm
b.	St. Lucie Baling Facility Volumes	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor This project consisted of professional surveying services for the annual volumetric survey and mapping of the St. Lucie Landfill. This includes 3D mapping from new aerial photography, ground survey to orientate aerial photography, and volumetric calculations comparing current mapped areas against past models.		<input checked="" type="checkbox"/> Check if project performed with current firm
c.	St. Lucie Baling Facility Phase V	2018 - 2022	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor Project included topographic survey, soil boring stakeout, soil boring as-build, well survey and stormwater survey – inverts.		<input checked="" type="checkbox"/> Check if project performed with current firm
d.	Legoland Flight School Expansion, Winter Haven, FL	2023	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor Project included topographic survey and subsurface utility designation. This was for an expansion to an inverted steel roller coaster which opened in 2011.		<input checked="" type="checkbox"/> Check if project performed with current firm
e.	Taylor Dairy Road Site, Fort Pierce, FL	2021 - 2023	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Staff Surveyor For this municipal project, scope included reviewing previous topographic and boundary mapping from the county, determining locations and elevations of existing conditions for new construction, subsurface utility designation, show wetland & endangered species, update tree survey, and convert survey information to digital terrain modeling format for use on AutoCAD.		<input checked="" type="checkbox"/> Check if project performed with current firm

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

01

21. TITLE AND LOCATION *(City and State)*

Village of Royal Palm Beach Survey MSA

22. YEAR COMPLETED

PROFESSIONAL SERVICES

Ongoing

CONSTRUCTION (if Applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Village of Palm Beach

b. POINT OF CONTACT NAME

Chris Marsh

c. POINT OF CONTACT TELEPHONE NUMBER

(561) 753-1233

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

The Village of Royal Palm Beach entered into a surveying services agreement with Langan Engineering & Environmental Services, Inc. on June 20, 2019. Langan was retained to provide surveying services for private development final and preliminary plats for the fiscal year.

Tasks included Staff Gauges, Pond Surveys, topographic surveys, FPL light stakeouts, Royal commons utilities, radar sign re-location, and plat reviews.

Cost and compensation were negotiated on a per-project basis.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME

Langan

(2) FIRM LOCATION *(City and State)*

West Palm Beach, FL

(3) ROLE

Subconsultant

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

02

21. TITLE AND LOCATION <i>(City and State)</i> St. Lucie Baling Facility Phase V, St. Lucie County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(if applicable)</i>

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER St. Lucie County	b. POINT OF CONTACT NAME Kevin Vann, PE	c. POINT OF CONTACT TELEPHONE NUMBER 772.231.4301
--------------------------------------	--	--

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

This project involved a topographic survey, soil boring stakeout, soil boring as-built, well survey, and stormwater survey-inverts for the St. Lucie Baling Facility Phase V. The firm's role in the project was to provide staff surveying services.

Specific Tasks:

- Conducted a topographic survey of the site to create a basemap for the design of the new facility.
- Staked out the locations of soil borings for geotechnical testing.
- As-built the soil borings to document the subsurface conditions.
- Conducted a well survey to locate and identify all existing wells on the site.
- Conducted a stormwater survey-inverts to document the existing stormwater system.

Deliverables:

- Topographic survey map
- Soil boring stakeout plans
- Soil boring as-built plans
- Well survey map
- Stormwater survey-inverts map

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME Langan	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE Subconsultant – CDM Smith
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete One Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

03

21. TITLE AND LOCATION <i>(City and State)</i> St. Lucie Baling Facility Volumes, St. Lucie County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(if applicable)</i>

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER St. Lucie County	b. POINT OF CONTACT NAME Kevin Vann, PE	c. POINT OF CONTACT TELEPHONE NUMBER 772.231.4301
--------------------------------------	--	--

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

This project is ongoing and consists of professional surveying services for the annual volumetric survey and mapping of the St. Lucie Baling Facility. The firm's role in the project is to provide staff surveying services.

Specific Tasks:

- Collect new aerial photography of the site.
- Conduct ground surveys to orient the aerial photography.
- Create a 3D map of the site using the aerial photography and ground survey data.
- Calculate the volume of the baled material at the facility by comparing the current map to previous maps.

Deliverables:

- 3D map of the site
- Volumetric calculations

Relevance to Current Contract:

This project is relevant to the current contract because it demonstrates the firm's experience with similar types of projects. The firm has a proven track record of successfully completing annual volumetric surveys and mapping of landfills.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME Langan	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE Subconsultant – CDM Smith
---	--------------------------------	---	--

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 04
21. TITLE AND LOCATION <i>(City and State)</i> Legoland Flight School Expansion, Winter Haven, FL		22. YEAR COMPLETED PROFESSIONAL SERVICES 2023
		CONSTRUCTION (if Applicable)
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Merlin Magic Making	b. POINT OF CONTACT NAME Richard Reep	c. POINT OF CONTACT TELEPHONE NUMBER (407) 499-9710
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>This project involved a topographic survey and subsurface utility designation for an expansion to an inverted steel roller coaster at Legoland. The firm's role in the project was to provide staff surveying services.</p> <p>Specific Tasks:</p> <p>Conducted a topographic survey of the site to create a basemap for the design of the new expansion. Located and identified all existing underground utilities on the site</p>		
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME Langan	(2) FIRM LOCATION <i>(City and State)</i> Orlando, FL	(3) ROLE Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 05
21. TITLE AND LOCATION <i>(City and State)</i> Taylor Dairy Road Site, Fort Pierce, FL		22. YEAR COMPLETED PROFESSIONAL SERVICES 2021-2023 CONSTRUCTION (if Applicable)
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER CDM Smith	b. POINT OF CONTACT NAME Benjamin Hayner	c. POINT OF CONTACT TELEPHONE NUMBER (772) 231-4301
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> For this municipal project, scope included reviewing previous topographic and boundary mapping from the county, determining locations and elevations of existing conditions for new construction, subsurface utility designation, show wetland & endangered species, update tree survey, and convert survey information to digital terrain modeling format for use on AutoCAD.		
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME Langan	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE Prime

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

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

06

21. TITLE AND LOCATION *(City and State)*

**Poitras East
Orlando, FL**

22. YEAR COMPLETED

PROFESSIONAL SERVICES

Ongoing

CONSTRUCTION (if Applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Tavistock

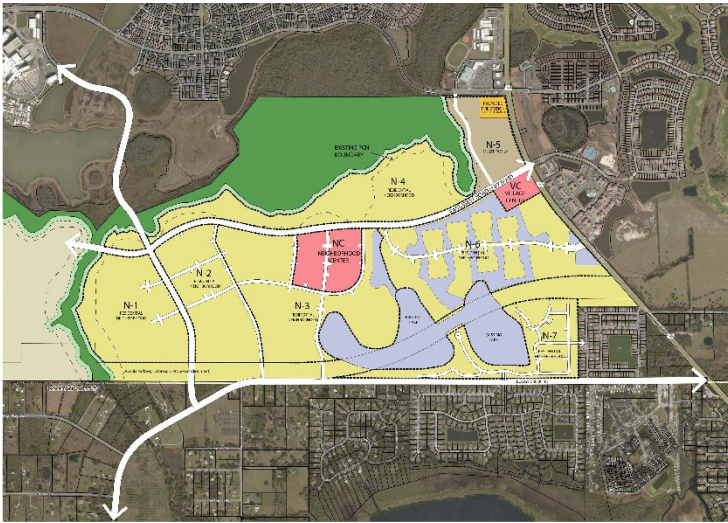
b. POINT OF CONTACT NAME

Lance Jackson

c. POINT OF CONTACT TELEPHONE NUMBER

407.313.8233

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



The Poitras East property is an 1300-acre undeveloped tract of land located minutes from Orlando International Airport. At full build out, Poitras East will include 2,700 residential units (single-family lots and multifamily units), a neighborhood center and commercial outparcels with a combined total of 100,000 SF, a K-8 school, and a community park. Langan is providing survey, mass grading, and master stormwater design and permitting services.

The survey component of this project comprised the utilization of many technologies and multiple approvals. The overall area was surveyed using aerial LiDAR due to the density of the foliage. A very stringent approval process with FAA was required to complete the aerial mission due to the

proximity to the Orlando airport. We used our in-house mobile LiDAR system to collect more detailed survey information along Boggy Creek Road and Narcossee Road. Bathymetric surveys were also required in the many ponds/lakes on the property as well. These technologies as well as conventional methods combined to provide the final topographic survey of the property.

Utilizing this survey as the basis of design, Langan is providing platting and full civil engineering design services for the first phase of residential development (200 single-family lots) and commercial development (45,000 SF), which will consist of retail and restaurant uses.

It anticipated that 6 more phases will be completed within the next 12 months to complete the project build out.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME

Langan

(2) FIRM LOCATION *(City and State)*

West Palm Beach, FL

(3) ROLE

Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 07
21. TITLE AND LOCATION <i>(City and State)</i> Formula 1 at Hard Rock Stadium Miami Gardens, FL		22. YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (if Applicable)
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER South Florida Stadium	b. POINT OF CONTACT NAME Todd Staley	c. POINT OF CONTACT TELEPHONE NUMBER 305.943.6604
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>Conduct a topographic survey and DTM utilizing multiple surveying techniques. We combined Mobile Mapping (LIDAR), terrestrial LiDAR, and traditional surveying methodologies at the the Hard Rock Stadium grounds in Miami, FL. The survey was needed for the design and modeling for the new Formula 1 race track. Project included setting approximately 350 targets to be used for horizontal and vertical survey control. Integrating mobile mapping, terrestrial scanning of the stadium along with conventional survey methods to provide a complete surface model of the 240+ acre site. In additional to the ground survey, nearly 500 underground utility structures we as-built for depth and pipe size.</p>		
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME Langan	(2) FIRM LOCATION <i>(City and State)</i> Miami Lakes, FL	(3) ROLE Prime

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

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

08

21. TITLE AND LOCATION *(City and State)*

Crawler Way DTM Survey, Titusville, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2023

CONSTRUCTION (if Applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Kennedy Space Center

b. POINT OF CONTACT NAME

Kim Rivera

c. POINT OF CONTACT TELEPHONE NUMBER

(321) 269-2950

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

Langan provided professional surveying services for the survey and mapping of the crawler way at Kennedy Space Center, Titusville Florida. The project consists of obtaining survey along crawler way A, B and C, plus areas around the VAB and the crawler way ramp at launch pad 39B.

Task 1 – Survey Control

Langan established on site control, both permanent and temporary, as needed for the support of the data collection phase of the project.

Task 2a – Data Collection – Mobile

Mobilization

Langan coordinated with the facility to mobilize a Leica Pegasus Two Mobile Mapping System to the project location. Langan utilized its Orlando regional office as our base of operations for this project.

Data Collection

Langan deployed a Leica Pegasus Two Mobile Mapping System or equivalent to acquire mobile LiDAR point clouds and associated imagery of the project location as defined previously. The use of locally placed GPS base stations by Langan in conjunction with the available CORS/VRS networks will provide accurate coverage for the data collection trajectories. This will allow the onboard GNSS and IMU to obtain the required accuracy for the project.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME

Langan

(2) FIRM LOCATION *(City and State)*

Orlando, FL

(3) ROLE

Subconsultant

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. 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			
Joseph Romano, PSM	Principal/Vice President	X	X	X	X	X	X	X	X	X		
Bryan Merritt, PSM	Senior Project Manager	X	X	X	X	X	X	X	X	X		
Gary McDaniel, PSM	Mobile LiDAR and UAS Project Manager and Acquisition Specialist		X	X	X	X	X		X	X		
Ronnie A. Figueroa, PSM, GISP, CST IV	Project Manager						X			X		
Diego Arboleda, CST 1	Staff Surveyor	X	X	X	X	X			X	X		
Maria Londono	Staff Surveyor	X	X	X	X	X			X	X		
Juan J. Jimenez	Staff Surveyor	X	X	X	X	X				X		

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Village of Royal Palm Beach Survey MSA	6	Postras East Orlando, FL
2	St. Lucie Baling Facility Phase V, St. Lucie, FL	7	Formula 1 at Hard Rock Stadium Miami Gardens, FL
3	St. Lucie Baling Facility Volumes, St. Lucie, FL	8	Kennedy Space Center DTM, Cape Canaveral, FL
4	LegoLand Flight School Expansion, Winter Haven, FL	9	
5	Taylor Dairy Road Survey, Fort Pierce, FL	10	

Integrated Solutions. Measurable Value

Langan Engineering & Environmental Services provides surveying, site development engineering and environmental consulting for private developers, public agencies, property owners, and institutional clients around the world.

Founded in 1970, Langan employs more than 1,500 professionals across 40 offices including West Palm Beach, Fort Lauderdale, Miami, Tampa, and Orlando, FL.

EXPERIENCE WITH LAND SURVEYING

Langan’s survey group provides rapid response times and flexible schedules to meet client needs and maintain schedules for fast-track projects. Our field crews utilize state-of-the-art surveying equipment including electronic data collectors, global positioning systems (GPS), robotic and prismless total stations, and BIM-compatible 3D Laser Scanning. Equipped with Internet-enabled laptops, field crews accommodate design changes in real time and download data into Langan’s network where it is edited, adjusted, analyzed and plotted. This allows for mapping that accurately reflects existing site conditions and boundary/legal issues, which could reveal potential problems early in a project’s development. Such technology, coupled with the seamless integration with other firm technical disciplines, enables Langan’s survey group to save time and money for our clients.

VEHICLES:

Langan has 16 four-wheel-drive trucks and 3 All-Terrain vehicles which is used to cover the rugged terrain that may be involved in a project. The typical survey crew uses heavy duty, four-wheel-drive trucks. These vehicles allow the crews to reach remote and rugged areas by vehicle as opposed to on foot, which allows them to work more efficiently. These vehicles are also equipped and capable of hauling trailers which carry ATV’s. These ATV’s are converted for survey use with brackets, racks and storage for carrying all the necessary survey equipment. The ATVs are all fitted with brackets that hold the GPS RTK units, which allow for measurements to be taken while the vehicle is in motion. All crews will have access to these vehicles as needed on this project.

COMPUTER AND OFFICE SOFTWARE:

All Langan personnel have access to a desktop computer or laptop computer. The surveying department as a standard utilizes AutoCAD and Terramodel to complete daily technical and drafting work. Langan utilizes field to finish programming in Terramodel/AutoCAD/Carlson to complete drafting of field measurements in a timely manner. Langan also has available several other CAD programs, including: AutoCAD, Civil 3D/Carlson and Microstation. There are staff members available with a working knowledge of all of the aforementioned programs. Langan also utilizes Trimble and TDS software to transfer survey data to and from the field. Langan utilizes Trimble GPS software to transfer, process and evaluate GPS data. Langan office personnel also have experience in many Microsoft and Adobe programs, including: Photoshop, Word, Excel, Power Point and Adobe Reader. When working on remote project assignments, our field crews can access the firm’s network through a secure VPN connection from any web-based PC.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE
9/22/2023

33. NAME AND TITLE

Joseph Romano, PSM/PLS, Principal/Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)
20230097

PART II – CONTRACT-SPECIFIC QUALIFICATIONS

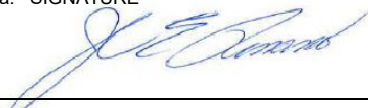
(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Langan Engineering & Environmental Services			3. YEAR ESTABLISHED 1970	4. DUNS NUMBER 191411016
2b. STREET 525 Okeechobee Blvd, Suite 910			5. OWNERSHIP	
2c. CITY West Palm Beach	2d. STATE FL	2e. ZIP CODE 33401	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Joseph Romano			b. SMALL BUSINESS STATUS n/a	
6b. TELEPHONE NUMBER 800.952.6426		6c. E-MAIL ADDRESS jromano@langan.com		7. NAME OF FIRM (If block 2a is a branch office) Langan Engineering & Environmental Services
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	231		A10	Asbestos Abatement	6
08	CADD Technician	24		C07	Coastal Engineering	5
11	Chemist	1		C15	Construction Management	
12	Civil Engineer	365	1	D02	Dams (Earth; Rock); Dikes; Levees	1
19	Ecologist	15		E01	Ecological /Archeological Investigations	4
23	Environmental Engineer	216	3	E06	Embassies and Chanceries	6
24	Environmental Scientist	105		E09	Envir. Impact Studies, Assessm'ts	5
27	Foundation/Geotechnical Engineers	270	2	E12	Environmental Remediation	7
29	GIS Specialist	30		G04	GIS... and Data Collection	4
30	Geologist	71		L02	Land Surveying	8
34	Hydrologist	1		L03	Landscape Architecture	6
36	Industrial Hygienist	1		P06	Planning (Site, Installation, Project)	4
38	Land Surveyor	73	2	S05	Soils/Geologic Studies; Foundations	10
39	Landscape Architect	37		S11	Sustainable Design	4
47	Planner: Urban/Regional	4		T03	Traffic & Transportation Eng.	7
57	Structural Engineer	1		W02	Water Resources; Hydrology...	4
60	Transportation Engineer	43		Z01	Zoning; Land Use Studies	5
(OTHER)	Asbestos/Lead/Mold Specialists	16			Site/Civil Engineering	10
	TOTAL	1504	8		Due Diligence	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>	PROFESSIONAL SERVICES REVENUE INDEX NUMBER
a. Federal Work	6
b. Non-Federal Work	10
c. Total Work	10

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

a. SIGNATURE 	b. DATE September 20, 2023
c. NAME AND TITLE Joseph Romano, PSM, Principal/Vice President	

02

TAB 2 - METHODOLOGY/APPROACH

Project Approach and Management

Project Approach and Management

LANGAN understands that City of Port St. Lucie is seeking the services of a Professional Surveyor to provide land surveying and mapping services and those services may include, but not be limited to:

All Survey types as depicted in the Florida Administrative Code chapter 5J-17.050

- Property/Boundary Surveys
 - The primary purpose of a Boundary Survey is to document the perimeters, or any one of them, of a parcel of land by establishing or re-establishing corners, monuments and boundary lines for the purposes of describing the parcel, locating fixed improvements on the parcel, dividing the parcel or platting.
- Easements – Preparation of signed and sealed Sketch of Descriptions
- Plan, Plat & Legal Description Review
 - Preparation/Creation of Plats
- Preparation of Metes and Bounds Legal Descriptions
 - Performed to describe land boundaries typically by metes and bounds for use in land transactions including platting.
- Topographic Surveys
 - These surveys are performed to determine the horizontal and vertical spatial relation of selected natural and artificial features of a part of the Earth's surface.
- Tree Surveys
 - These surveys are typically performed as a part of a Topographic Survey.
- Wetland Surveys
 - Located as flagged by an Environmental consultant.
- Ground Control of Aerial Surveying
 - Horizontal and Vertical Positions for the Support or Control of Subordinating Surveys or for Mapping.
- Retracement of Property Boundary Surveys
- Asbuilt Surveys
 - These surveys are performed to provide horizontal and vertical location of newly constructed improvements.
- Title Work and Deed Investigation
 - Our professional surveyors and mappers are very adept in researching properties. For more in-depth projects, we contract with a title-search company directly to gain more efficiency in the title report.
- Elevation Certificates
- Construction Layout and QA/QC Surveys
 - These surveys are completed to provide horizontal and vertical measurements prior to or while construction is in progress to control elevation configuration and horizontal position and dimensions for construction projects.
- Provide support in the Capacity as the City Surveyor
- Material Quantity Surveys
 - Typically these surveys are performed to provide measurements of quantities of borrow/fill and spoil areas.
- Legal Support Services or Testimony
- Global Positioning System (RTK) Data Collection
- Utility and Infrastructure Surveys
 - These surveys are performed to obtain a horizontal and vertical position for specific utilities in order to add them to a drawing or geodatabase.
- Right-of-Way Surveys
 - The primary purpose of a Right-of-Way Survey is typically to determine the limits of a strip of land for the establishment of boundaries, monumentation of the right-of-way lines, and locating encroachments or improvements as well as providing final right-of-way maps.
- Staff Gauge Installation (Per FCC Form 601 Schedule D)

Project Approach and Management

- Specific/Special Purpose Surveys
 - This term is used for those unusual assignments that don't fit into a previously defined category found in the Florida Administrative Code, Minimum Technical Standards)*
- ALTA Surveys
 - Members of the American Land Title Association® (ALTA®) have specific needs, unique to title insurance matters, when asked to insure title to land without exception as to the many matters which might be discoverable from survey and inspection, and which are not evidenced by the public records.*
- Hydrographic/Bathometric Surveys
 - A survey having as its principle purpose the determination of data relating to bodies of water and which may consist of the determination of one or several classes of data.*
- Geographic Information System (GIS) Database creation and management
- Other Services related to Professional Surveying and Mapping
- Mean High Water Line Surveys
- Professional Survey and Mapping Review Services
- Aerial Lidar
 - This task involves establishing targets or post identifying select features along with establishing the X, Y, Z values of same and also collecting digital RTK data during the flight portion of the project.*
- Aerial Ortho-Photography
 - These services are typically provided by a Photogrammetry Firm as a part of large scale projects involving Topographic Surveys, Drainage Basin Study's or Vegetation Mapping. Mobile Data Collection Land purchase/management feasibility and due diligence studies.*
- Drafting
- GPS Mapping
- Permitting
- Various Meetings as Needed
- Parcel Sketches
- Parcel Descriptions
- Basic and Advanced Field Survey Work
- Associated Office Calculation & Document Preparation Meetings
- Utility, Easement, Property Boundary Locates
- Topographic Surveys
- Cross Sections
- Survey Data Research
- Right-of-Way Research
- Additional Services as needed for Capital Projects or Property Transactions.
- Associated Planning, Design, Permitting, Post-Design, or Adjunct Services as needed.

Project Approach and Management

LANGAN fully understands the expected services required by City of Port St. Lucie and stands ready with an unmatched team with an outstanding track record.

Our survey team has supported our engineering department in all the above categories in addition to a demonstrated history of successful execution in continuing services contracts.

The following list is our current continuing land surveying services contracts:

- LANGAN Continuing Contracts for Surveying Services
- Broward County Solid Waste and Recycling Services - Continuing Services Contract Broward County – Continuing Services Contract
- Village of Royal Palm Beach - Continuing Services Contract Village of Palm Springs - Continuing Services Contract
- City of Palm Beach Gardens - Continuing Services Contract

The LANGAN professionals understand that City of Port St. Lucie is seeking services on an on-demand basis – often with expedited schedules. LANGAN has been providing on-demand surveying services for public sector clients for over a decade and our team of professionals has decades of survey experience.

LANGAN's Objectives & Commitments to City of Port St. Lucie:

- To provide City of Port St. Lucie Professional Surveying and Mapping services that will meet and exceed City of Port St. Lucie's expectations.
- To provide the successful completion of all task assignments within the project schedule and budget.
- To provide the required personnel for each project.
- To provide strong support & resources for each task assignment.
- To provide superior communication between the LANGAN team and City of Port St. Lucie's team.
- To provide efficient & effective QA/QC for all deliverables.

LANGAN Surveying Equipment and Technology:

LANGAN has the ability to provide up to 4 survey field crews (OSHA certified) and 20 support staff personnel

at any given time during the course of this contract. Our fully trained personnel, surveying equipment, technology and computer software is state of the art and allows us to provide your agency with completion of multiple site-specific engagements at any given time. We have outlined below the extent of our surveying equipment and technologies available for our use on this contract.

LANGAN intends to utilize conventional and robotic total stations with Bluetooth and Wi-Fi capable data collectors, Global Positioning System (GPS) survey units and the Florida Permeant Reference Network (FPRN), which will provide real-time, adjusted coordinates for surveyed locations in the field. LANGAN has several four-wheel-drive heavy duty pick-up trucks and All-Terrain-Vehicles (ATVs) that will be utilized to access the project site areas. LANGAN also uses several types of office software to complete survey work and provide clients with data. These include AutoCAD Civil 3D (CDD) and Carlson, Terramodel with field to finish and 3-D rendering capabilities. LANGAN also utilizes Trimble, Leica and Infinity data processing software, as well as all Microsoft Office and Adobe software packages.

Conventional and Robotic Total Stations:

LANGAN owns over 25 robotic total stations, which means one person can operate as an entire survey crew. All total stations are equipped with reflector-less technology and auto tracking. The reflector-less function allows the surveyor the ability to locate something with reasonable accuracy without having to measure to the prism. This function is very valuable in locating the tops of structures, trees, and or overhead wires, signs, utility tone-out or pipes. The auto tracking function allows the crews to work at a more rapid pace. The instrument, as long as it has line of sight to the prism, will automatically follow the prism, saving time and effort on the instrument operator's part. All of these instrument's work in correlation with the data collectors to control the survey and record the data being measured.

Data Collectors:

LANGAN has data collectors are Bluetooth and Wi-Fi capable. This function allows for faster and more convenient communication between the instrument and data collector, and the data collector and a desktop PC or laptop computer. These communications are important to maintain accurate data records and provide the

Project Approach and Management

opportunity for the data to be checked and or calculated in the office.

Traditional GPS:

LANGAN has 8 GPS base units and 10 Real Time Kinematics (RTK) GPS units. The base unit is set up on a known control point and can broadcast to multiple RTK units to provide real time adjusted GPS data to the operator. This allows the operator to record already adjusted coordinates, real time checks on control and stake out pre-calculated coordinates with great accuracy. All GPS data is stored on a data collector, which is important to maintain accurate data records and provide the opportunity for the data to be checked and or calculated in the office.

VRS (Virtual Reference Station System):

LANGAN has multiple RTK systems set up to operate with a VRS (Virtual Reference Station System) network. This system, through continually operating base stations around covering the entire State of Florida, allows the operator to achieve fast, high precision performance over a larger area than traditional RTK survey. This is achieved by eliminating the need for a temporary field base station. This temporary field base station has limitations as to how far it can broadcast to an RTK unit. LANGAN intends to utilize this system as much as possible over the duration of the project.

3D Laser Scanning:

Work in the Data, Not on the Data: Laser Scanning is changing the surveying/mapping industry and LANGAN is leading the revolution. Since the addition of High-Definition Laser Scanning services in 2003, LANGAN has offered the most accurate and highly detailed existing conditions surveys possible. This advanced technology allows for the collection of millions of data points in less time and with lower overall cost than traditional techniques. Laser Scanning equipment allows end users to accomplish project objectives more efficiently and accurately at all stages, in turn minimizing overall project costs and reducing turn around time, while achieving a higher level of detail.

Our ability to offer a combination of High-Definition Laser Scanning and conventional surveying methods allow LANGAN to deliver a complete product. As with all of our surveying services, the scanning effort is overseen

by Professional Land Surveyors who bring experience and knowledge of traditional methods to this cutting-edge technology.

In scanning, the data collected is known as a “point cloud” which contains a 3D database of the entire project area and allows the measurement of any surface information that is visible in the cloud to be used during the entire project lifecycle. After processing, the data from the “point cloud” can be utilized to produce dimensionally correct 3D models and/or 2D dimensional plans, with outputs to Microstation, AutoCAD or a host of other platforms. The registered data can also be used as a base to create highly detailed site visualizations or mass models. The end data can be used for BIM support, forensics studies, to determine possible construction conflicts, to validate construction/fabrication dimensions, or even to model major motion picture sets.

With prior technologies the end user had to work on the data. High-Definition Laser Scanning allows the end user the ability to work in the data and be “on site virtually” with the push of a button.

LANGAN has thirteen (13) HD 3-D Laser Scanners (both phase based and time of flight systems) to augment our ability to provide the most accurate and highly detailed existing conditions survey data. This advanced piece of technology allows for the collection of millions of data points in less time and with lower overall cost than the traditional techniques. The use of this equipment will allow design professionals to accomplish project objectives more efficiently and accurately at all stages reducing overall project costs. All while maintaining a high level of detail with 4-6 mm accuracy.

Our ability to offer a combination of conventional survey and High Definition 3-D laser scanning and conventional surveying methods allows us to deliver a complete product. The data collected during the laser scanning process is known as a “point cloud” and contains a 3-D database of the entire project area and allows the measurement of building details, heights, and separations, as well as any surface information that is visible to be used during the entire project lifecycle. After processing the data from the “point cloud” it can be utilized to produce dimensionally correct 3-D models and/or 2-D dimensional plans, with output to Microstation, AutoCAD or a host of other platforms. The

Project Approach and Management

registered data can be used as a base to create highly detailed visualizations for the site.

Our laser scanner will accurately depict all visible features of the building with great accuracy and detail. The database laser scanning delivers at the beginning of a project will save time and overall project budget by helping to avoid potential design conflicts. Our field to finish method of integrating high-definition laser scanning with conventional surveying methods will ensure the project will run efficiently with greatly reduced or even no additional site visits.

LANGAN's Approach for a Typical Survey and Mapping Assignment:

- The LANGAN Team is aware that good communication and coordination are critical to a successful project. Communication and coordination are imbedded in every level of each task assignment
- Receive a work request from City of Port St. Lucie Project Manager.
- Review said work order request to specify any questions or comments. If needed, schedule a team meeting with City of Port St. Lucie Project Manager and Key Personnel.
- Start project research and develop a work plan that will include the task details relative to both the field and office duties.
- Balance the work plan and assemble the man-hours based on all of the information gathered during the research phase.
- Submit the proposed scope of work and the man-hour fee table for review and comments or approval.
- Revise the proposed scope of work and the man-hour fee table (if needed) based on comments from the City of Port St. Lucie Project Manager and resubmit.
- The proposal will be completed to coincide and complement the expedited project schedule requirements.
- After the Notice to Proceed is received, a Project Kickoff Meeting is held inhouse to discuss the Project to ensure that everyone involved is clear on the project limits, the specific overall scope, their specific role in the scope, and the expected map details to include scale and format. The LANGAN Team has a variety of resources, technology and equipment that includes: LiDAR, GPS/RTK, Robotic/Reflectorless Total Stations, and Digital Levels with trained/experienced technicians operating this equipment.
- The project and subsequent tasks are scheduled, and crew(s) will be mobilized for the project.
- Commence the task activities both the field and the office with project team members.
- The Project Manager and the Project Surveyor will monitor the progress daily.
- Make any necessary adjustments to the assigned resources – if, or when, required.
- Perform all quality assurance and quality control activities per the QA/QC plan.
- Deliver the preliminary draft in a pdf format as agreed to in the scope of work.
- An innovative concept/technique for expediting the final deliverable is to have the client be part of the process. Final data is forwarded to the client via e-mail. Client reviews and responds with comments. Once any client comments are addressed, LANGAN follows up with an electronic file on disk and hard copy prints signed and sealed.
- Any revisions as requested by client will be made, normally within 1- 2 days.
- Once a final approval is received, all required hard copies and electronic files are delivered.
- Completion will typically be within 10 - 45 days of the Notice to Proceed depending on the project complexity.
- When the work product receives final approval by the Project Manager, LANGAN creates an invoice and closes out the task.

Project Approach and Management

LANGAN's Quality Control / Quality Assurance (QA/QC):

LANGAN's main objective of a QA/QC plan is to provide a mechanism by which all survey elements required to complete a survey project can be subject to a consistent review in order to minimize errors and create a quality survey. The QA/QC plan is instituted as soon as the project becomes initiated. We feel the key to achieving this objective starts with an organizational strategy to insure appropriate levels of responsibility and reporting.

Other key elements are as follows:

- Extensive research of all existing resources and records including public and in-house.
- Technical Meetings – discussions among the project team.
- Coordination and supervision performed by a Professional Surveyor and Mapper (P.S.M.)
- Checking the accuracy and integrity of the field collected survey data, including methodology, survey control and use of the proper survey tools to achieve the accuracy confidence and objective.
- Checking drawings for completeness and clarity, compatibility standards and conformance to the Standards of Practice as set forth by Chapter 5J-17.052, Florida Administrative Code.
- Checking Survey Reports or Maps– Review comments are marked in red by the reviewer and initialed or signed and dated and returned to the originator. The originator then makes the revisions and files the review mark-up in the project file.
- Documentation of all QA/QC records including calculations and worksheets.

03

TAB 3 - MBE (NOT APPLICABLE)

04

TAB 4 - COMPLETED FORMS

**CONSULTANT'S GENERAL INFORMATION WORK SHEET
E-RFP #20230097**

It is understood and agreed that the following information is to be used by the City to determine the qualifications of prospective Consultant to perform the work required. The Consultant waives any claim against the City that might arise with respect to any decision concerning the qualifications of the Consultant.

The undersigned attests to the truth and accuracy of all statements made on this questionnaire. Also, the undersigned hereby authorizes any public official, Engineer, Surety, bank, material or equipment manufacturer, or distributor, or any person, firm or corporation to furnish the City any pertinent information requested by the City deemed necessary to verify the information on this questionnaire.

Dated at 525 Okeechobee Blvd, Ste 910, West Palm Beach, FL 33401, this 21st day of September, 2023
(Location)

Name of Organization/Consultant: Langan Engineering & Environmental Services, Inc.

By: Joseph Romano, PSM - Principal/Vice-President
Name and Title

1. Corporation, Partnership, Joint Venture, Individual or other? Corporation

2. Firm's name and main office address, telephone, and fax numbers

Name: Langan Engineering & Environmental Services, Inc.

Address: 525 Okeechobee Blvd, Ste 910, West Palm Beach, FL 33401

Telephone Number: (973) 560-4618

Fax Number: _____

3. Contact person: Joseph Romano Email: jromano@langan.com

4. Firm's previous names (if any). _____

5. **ADDENDUM ACKNOWLEDGMENT** - Bidder acknowledges that the following addenda have been received and are included in its proposal/bid:

Addendum Number	Date Issued	Addendum Number	Date Issued
#1	9/14/2023		

6. List any lawsuits pending or completed within the past five (5) years involving the corporation, partnership or individuals with more than ten percent (10%) interest:

Langan is a large firm and is involved in over 5,000 projects per year. Many of these projects are large and complex and typically generate a variety of claims and disputes of which evolve into formal legal proceedings. These proceedings typically name all design consultants, including Langan, regardless of scope and responsibility. In the majority of these proceedings, Langan has been named as a defendant despite our belief that the firm has no liability. Information on claims, litigations, and proceedings, particularly open claims, may be privileged, and Langan cannot provide further information due to the risk of breaching confidentiality. With that said, Langan does not believe that any of these proceedings will have a material adverse effect on the operations of the Company or its ability to perform.

(N/A is not an acceptable answer - insert lines if needed)

7. List any judgments from lawsuits in the last five (5) years:
See answer listed for #6.

(N/A is not an acceptable answer - insert lines if needed)

8. List any criminal violations and/or convictions of the Proposer and/or any of its principals:
See answer listed for #6.

(N/A is not an acceptable answer - insert lines if needed)



Signature

Principal / Vice-President

Title

NOTICE TO ALL PROPOSERS

To ensure fair consideration is given for all Proposers, it must be clearly understood that upon release of the proposal and during the proposal process, firms and their employees of related companies as well as paid or unpaid personnel acting on their behalf shall not contact or participate in any type of contact with City employees, department heads or elected officials, up to and including the Mayor and City Council. The "Cone of Silence" is in effect for this solicitation from the date the solicitation is advertised on DemandStar, until the time an award decision has been approved by City Council and fully executed by all parties. Information about the Cone of Silence can be found under the City of Port St. Lucie Ordinance 20-15, Section 35.13. Contact with anyone other than the Issuing Officer may result in the vendor being disqualified. All contact must be coordinated through Ms. Robyn Holder, Issuing Officer, for the procurement of these services.

All questions regarding this Solicitation are to be submitted in writing to Robyn Holder, Procurement Manager with the Procurement Management Department via e-mail rholder@cityofpsl.com, or by phone 772-344-4293. Please reference the Solicitation number on all correspondence to the City.

All questions, comments and requests for clarification must reference the Solicitation number on all correspondence to the City. Any oral communications shall be considered unofficial and non-binding.

Only written responses to written communication shall be considered official and binding upon the City. The City reserves the right, at its sole discretion, to determine appropriate and adequate responses to the written comments, questions, and requests for clarification.

***NOTE:** All addendums and/or any other correspondence before bid close date (general information, question and responses) to this solicitation will be made available exclusively through the DemandStar's Website for retrieval. All notice of intent to award documentation will be published on the City Clerk's Website. Proposers are solely responsible for frequently checking these websites for updates to this solicitation.

I understand and shall fully comply with all requirements of City of Port. St. Lucie Ordinance 20-15, Section 35.13.

Typed Name: Joseph Romano, PSM

Signed:  _____

Company and Job Title: Langan Engineering & Environmental Services, Inc. - Principal/Vice-President

Date: 9/21/2023



"A City for All Ages"

CONSULTANT'S CODE OF ETHICS

The City of Port St Lucie ("City), through its Procurement Management Department ("Procurement Management Department") is committed to a procurement process that fosters fair and open competition, is conducted under the highest ethical standards and enjoys the complete confidence of the public. To achieve these purposes, Procurement Management Department requires each vendor who seeks to do business with the City to subscribe to this Consultant's Code of Ethics.

- ◆ A Consultant's bid or proposal will be competitive, consistent and appropriate to the bid documents.
- ◆ A Consultant will not discuss or consult with other Vendors intending to bid on the same contract or similar City contract for the purpose of limiting competition. A Vendor will not make any attempt to induce any individual or entity to submit or not submit a bid or proposal.
- ◆ Consultant will not disclose the terms of its bids or proposal, directly or indirectly, to any other competing Vendor prior to the bid or proposal closing date.
- ◆ Consultant will completely perform any contract awarded to it at the contracted price pursuant to the terms set forth in the contract.
- ◆ Consultant will submit timely, accurate and appropriate invoices for goods and/or services actually performed under the contract.
- ◆ Consultant will not offer or give any gift, item or service of value, directly or indirectly, to a City employee, City official, employee family member or other vendor contracted by the City.
- ◆ Consultant will not cause, influence or attempt to cause or influence, any City employee or City Official, which might tend to impair his/her objectivity or independence of judgment; or to use, or attempt to use, his/her official position to secure any unwarranted privileges or advantages for that Vendor or for any other person.
- ◆ Consultant will disclose to the City any direct or indirect personal interests a City employee or City official holds as it relates to a Vendor contracted by the City.
- ◆ Consultant must comply with all applicable laws, codes or regulations of the countries, states and localities in which they operate. This includes, but is not limited to, laws and regulations relating to environmental, occupational health and safety, and labor practices. In addition, Consultant

must require their suppliers (including temporary labor agencies) to do the same. Consultant must conform their practices to any published standards for their industry. Compliance with laws, regulations and practices include, but are not limited to the following:

- Obtaining and maintaining all required environmental permits. Further, Consultant will endeavor to minimize natural resource consumption through conservation, recycling and substitution methods.
- Providing workers with a safe working environment, which includes identifying and evaluating workplace risks and establishing processes for which employee can report health and safety incidents, as well as providing adequate safety training.
- Providing workers with an environment free of discrimination, harassment and abuse, which includes establishing a written antidiscrimination and anti-bullying/harassment policy, as well as clearly noticed policies pertaining to forced labor, child labor, wage and hours, and freedom of association.

Name of Organization/Proposer Langan Engineering & Environmental Services, Inc.

Signature 

Printed Name and Title Joseph Romano, PSM - Principal / Vice-President

Date 9/21/2023

DISCLAIMER: This Code of Ethics is intended as a reference and procedural guide to Consultants. The information it contains should not be interpreted to supersede any law or regulation, nor does it supersede the applicable Consultant contract. In the case of any discrepancies between it and the law, regulation(s) and/or Consultant contract, the law, regulatory provision(s) and/or vendor contract shall prevail.

E-Verify Form

Contractor acknowledges and agrees to the following:

1. Shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Supplier/Consultant during the term of the contract; and
2. Shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

E-Verify Company Identification Number 1777932

Date of Authorization 05/15/2013

Name of Contractor Langan Engineering & Environmental Services, Inc.

Name of Project City of Port St. Lucie Continuing Contracts for Survey & Mapping Services

Solicitation Number (If Applicable) #20230097

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on September, 20th, 2023 in Parsippany (city), NJ (state).



Signature of Authorized Officer

Erin Cooke

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE 21 DAY OF September, 2023.

NOTARY PUBLIC Audrey D. Schaefer

My Commission Expires: 27 January 2027

AUDREY D. SCHAEFER
NOTARY PUBLIC OF NEW JERSEY
Commission No. 50183792
My Commission Expires January 27, 2027

NON-COLLUSION AFFIDAVIT

State of Florida

County of Hillsborough }

Joseph Romano, PSM, being first duly sworn, disposes and says that:

(Name/s)

1. They are Principal/Vice-President of Langan Engineering & Environmental Services, Inc. the Proposer that
(Title) (Name of Company)

has submitted the attached PROPOSAL;

2. He is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such PROPOSAL;

3. Such Proposal is genuine and is not a collusive or sham Proposal;

4. Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Proposer, firm or person to submit a collusive or sham Proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such Contract or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices in the attached Proposal or of any other Proposer, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Port St. Lucie or any person interested in the proposed Contract; and

5. The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed)  _____

(Title) Principal/Vice-President _____

STATE OF FLORIDA }
COUNTY OF ST. LUCIE) SS:

The foregoing instrument was acknowledged before me this (Date) 9/22/2023

by: Joseph Romano who is personally known to me or who has produced
_____ as identification and who did (did not) take an oath.

Commission No. HH016419

Notary Print: Kristoffer Caldwell

Notary Signature: *Kristoffer Caldwell*



DRUG-FREE WORKPLACE FORM

The undersigned Contractor in accordance with Florida Statute 287.087 hereby certifies that
Langan Engineering & Environmental Services, Inc. does:
(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under proposal 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 proposal, 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 Florida Statutes or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.


Bidder's Signature

9/21/2023

Date:

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES' LISTS

Vendor Name: Langan Engineering & Environmental Services, Inc.
Vendor FEIN: 22-3167382
Authorized Representative's Name: Joseph Romano, PSM
Authorized Representative's Title: Principal/Vice-President
Address: 525 Okeechobee Blvd, Ste 910,
City, State and Zip Code: West Palm Beach, FL 33401
Phone Number: (973) 560-4618
Email Address: jromano@langan.com

Sections 287.135 and 215.473, Florida Statutes, prohibit Florida municipalities from contracting with companies, for goods or services over \$1,000,000 that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or to engage in any Business operations with Cuba or Syria. Sections 287.135 and 215.4725 also prohibit Florida municipalities from contracting with companies, for goods or services in any amount that are on the list of Scrutinized Companies that Boycott Israel.

The list of "Scrutinized Companies" is created pursuant to Section 215.473, Florida Statutes. A copy of the current list of "Scrutinized Companies" can be found at the following link:
<https://www.sbafla.com/fsb/FundsWeManage/FRSPensionPlan/GlobalGovernanceMandates/QuarterlyReports.aspx>

As the person authorized to sign on behalf of the Respondent Vendor, I hereby certify that the company identified above in the section entitled "Respondent Vendor Name" is not listed on either the Scrutinized Companies with Activities in Sudan List; or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; is not participating in a boycott of Israel; and does not have any business operations with Cuba or Syria. I understand that pursuant to Sections 287.135 and 215.473, Florida Statutes, the submission of a false certification may subject the Respondent Vendor to civil penalties, attorney's fees, and/or costs.

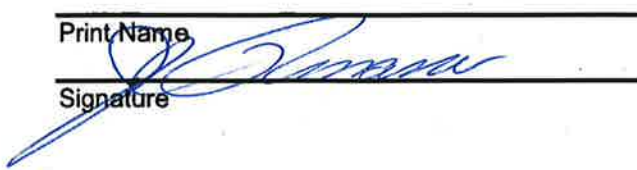
I understand and agree that the City may immediately terminate any contract resulting from this solicitation upon written notice if the company referenced above are found to have submitted a false certification or any of the following occur with respect to the company or a related entity: (i) for any contract for goods or services in any amount of monies, it has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, or (ii) for any contract for goods or services of one million dollars (\$1,000,000) or more, it has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or it is found to have been engaged in business operations in Cuba or Syria.

Authorized Signature

Joseph Romano, PSM - Principal / Vice-President

Print Name

Signature



TRUTH-IN-NEGOTIATION CERTIFICATE AND AFFIDAVIT

STATE OF FLORIDA §
COUNTY OF ST. LUCIE §

Before me, the undersigned authority, personally appeared affiant Joseph Romano, who being first duly sworn, deposes and says:

1. That the undersigned firm is furnishing this Truth in Negotiation Certificate pursuant to Section 287.055(5)(a) of the Florida Statutes for the undersigned firm to receive an agreement for professional services with the City of Port St. Lucie, St. Lucie County, Florida.

2. That the undersigned firm is a corporation which engages in furnishing professional engineering services and is entering into an agreement with the City of Port St. Lucie, St. Lucie County, Florida to provide professional services for a project known as Continuing Contracts for Survey and Mapping Services, Contract # 20230097.

3. That the undersigned firm has furnished the City of Port St. Lucie, St. Lucie County, Florida a detailed analysis of the cost of the professional services required for the project.

4. That the wage rate information and other factual unit cost, which the undersigned firm furnished, were accurate, complete and current at the time the undersigned firm and the City of Port St. Lucie entered into the agreement for professional services on the project.

5. That the agreement which the undersigned firm and the City of Port St. Lucie entered into on this job contained a provision that the original agreement price and any additions thereto shall be adjusted to include any significant sums by which the City of Port St. Lucie determines the agreement price was increased due to inaccurate, incomplete or non-current wage rates or other factual unit cost and that all such agreement adjustments shall be made within one (1) year following the end of the agreement.

FURTHER AFFIANT SAYETH NAUGHT

Langan Engineering & Environmental Services, Inc.

Name of Firm

Joseph Romano, PSM

By: President



The foregoing instrument was acknowledged before me by Joseph Romano who has produced License as identification or is personally known to me.

WITNESS my hand and official seal in the State of County last aforesaid this 21 day of September, 2023.

(SEAL)

Audrey Schaefer
Signature

Audrey Schaefer
Notary Name (typed or printed)

Admin
Title or Rank

AUDREY D. SCHAEFER
NOTARY PUBLIC OF NEW JERSEY
Commission No. 50183792
My Commission Expires January 27, 2027