

& Associates, Inc.
Project Management
Engineering
Landscape Architecture
Surveying & Planning

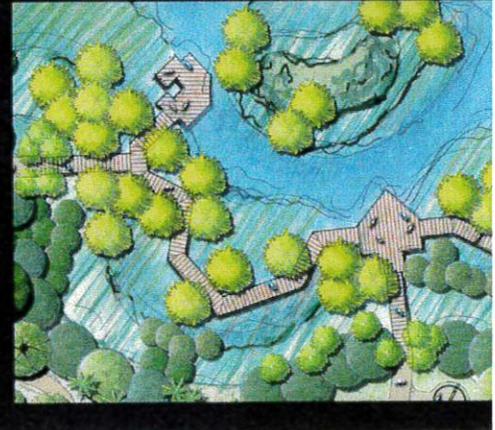
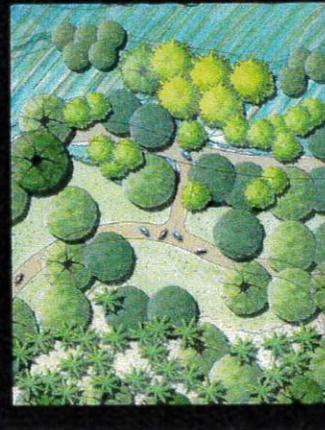
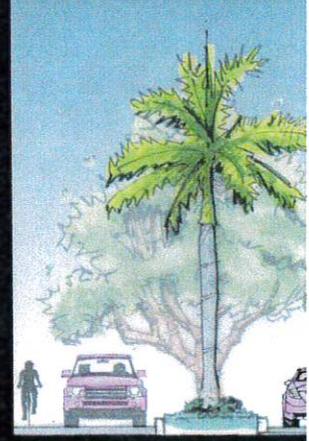
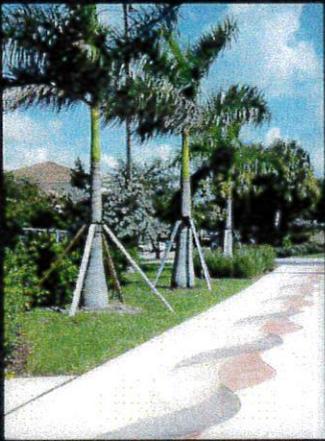
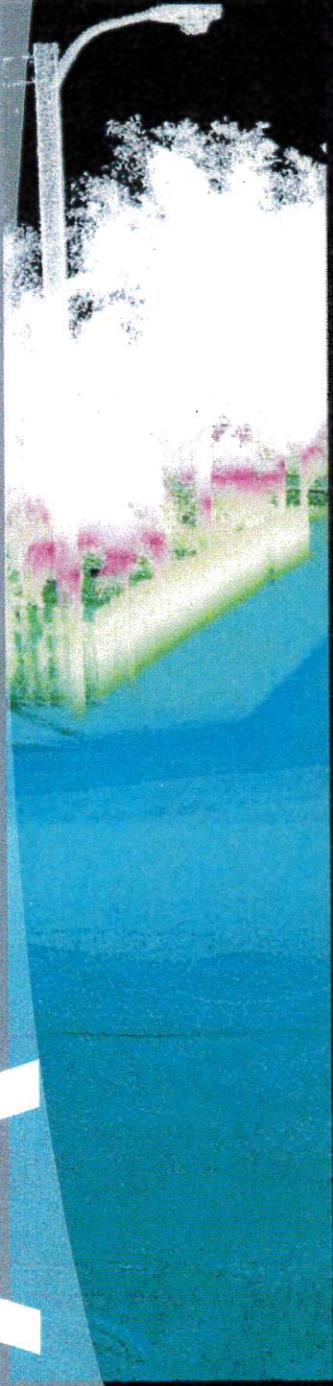
2563 NW 53rd Street, Fort Lauderdale, FL 33309
Phone: (954) 739-6400

CITY OF
Hollywood
FLORIDA

TO PROVIDE CONTINUING SERVICES CONTRACT
CIVIL/LANDSCAPE ARCHITECTURE/ PLANNING ENGINEERING SERVICE
FOR STREETSCAPE AND INFRASTRUCTURE IMPROVEMENT

JULY 9TH, 20
COP

LANDSCAPE ARCHITECTURE



**Request for Qualifications
to Provide
Continuing Services Contracts
Civil / Landscape Architecture / Planning
Engineering Services
for
Streetscape and Infrastructure Improvements
Solicitation DS 18-014**



Submitted to:

**City of Hollywood
Office of the City Clerk
2600 Hollywood Boulevard, Room 221
Hollywood, Florida 33020**

Submitted by:

**Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309**

CRAVEN THOMPSON



& ASSOCIATES INC.

July 9, 2018

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July 9, 2018

Office of the City Clerk
City Hall
City of Hollywood
2600 Hollywood Boulevard, Room 221
Hollywood, Florida 33020

**RE: REQUEST FOR QUALIFICATIONS TO PROVIDE CONTINUING SERVICES CONTRACTS
CIVIL / LANDSCAPE ARCHITECTURE / PLANNING / ENGINEERING SERVICES
FOR STREETScape AND INFRASTRUCTURE IMPROVEMENTS
SOLICITATION DS 18-014**

Dear Selection Committee Members:

In response to the **City of Hollywood's** request for seeking professional consultants to provide "*CIVIL/LANDSCAPE ARCHITECTURE/PLANNING*", **Craven Thompson and Associates, Inc.** (CTA) is pleased to submit this Statement of Qualifications (SOQ). CTA has been providing consulting services to the City of Hollywood for many years. We currently have continuing service contracts with the City for surveying, water, sanitary sewer, and drainage. Our level of performance and commitment is evident by the number of projects the City has contracted for with our firm.

CTA understands that the City is seeking planners, landscape architects, and civil engineers to plan, design, permit, provide bid assistance and construction administration establishing multi-modal elements for various transportation corridors implementing complete street concepts such as enhanced and safe pedestrian access and connectivity, bicycle lanes and connectivity to designated bicycle routes, the linkage of pedestrian routes to parks & recreation, commercial areas, and linking various other land use types, establishing mass transit stops along the corridor and providing aesthetically pleasing streetscapes.

We will initiate public outreach efforts bringing together stakeholders to provide input and commentary on the project. Our design will incorporate urban design & planning concepts, complete street elements, safe modes of transportation, create a sense of identity for various areas and enhance areas for redevelopment purposes.

CTA will retain the proposed team throughout the duration of the contract. We commit to providing the City of Hollywood with projects delivered on time and within or under budget.

CTA will provide urban planning services, landscape architecture, complete streets and streetscape, civil engineering and construction administration and inspection services. The CTA team will also include **Absolute Civil Engineering Solutions (ACES)** providing geotechnical and testing services; **Masuen Consulting LLC** providing irrigation design services, **InfraMap Corp** providing subsurface utility locates, **Electrical Design Associates (EDA)** providing lighting design and electrical engineering, and **HBC Engineering Company** providing traffic studies (as necessary), MOT and signal design services. This CTA team has successfully completed similar projects for various

municipalities. Through the vast experience accumulated by these established firms, the CTA team has developed the knowledge and expertise necessary to provide timely and cost-effective services to the City of Hollywood.

We sincerely appreciate the opportunity to provide this response to the City of Hollywood and hope to continue to build upon the relationship we have with the City and staff.

Sincerely,

CRAVEN THOMPSON & ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read "Joseph D. Handley", written over a circular scribble.

JOSEPH D. HANDLEY, R.L.A.
Vice President, Planning & Landscape Architecture

JDH/tg

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Continuing Services Contracts Civil/Landscape Architecture/Planning Engineering Services for Streetscape and Infrastructure Improvements

2. PUBLIC NOTICE DATE

June 11, 2018

3. SOLICITATION OR PROJECT NUMBER

Bid DS 18 - 014

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Joseph D. Handley, R.L.A., Vice President, Planning & Landscape Architecture

5. NAME OF FIRM

Craven, Thompson & Associates, Inc.

6. TELEPHONE NUMBER

(954) 739-6400

7. FAX NUMBER

(954) 739-6409

8. E-MAIL ADDRESS

jhandley@craventhompson.com

C. PROPOSED TEAM

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

(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
PRIME	J-V PARTNER	SUBCON-TRACTOR				
a.	X			Craven Thompson & Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	3563 NW 53 rd Street Fort Lauderdale, Florida 33309	Comprehensive Street Improvements / Complete Streets - Landscape Architecture, Surveying, Civil Engineering & Construction Services
b.			X	Absolute Civil Engineering Solutions, LLC <input type="checkbox"/> CHECK IF BRANCH OFFICE	4121 SW 47th Ave., Suite 1319 Davie, Florida 33314	Geotechnical Engineering and Testing
c.			X	HBC Engineering Company <input type="checkbox"/> CHECK IF BRANCH OFFICE	13155 SW 134th Street, #207 Miami, FL 33186	Traffic Engineering, Signal Design, & MOT
d.			X	Masuen Consulting, LLC <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	32801 Highway 441 N. #293 Okeechobee, Florida 34972	Landscape Irrigation Design
e.			X	Electrical Design Associates <input type="checkbox"/> CHECK IF BRANCH OFFICE	8401 Lake Worth Road, Suite 221 Lake Worth, Florida 33467	Lighting & Electrical Power Source
f.			X	InfraMap Corp. <input type="checkbox"/> CHECK IF BRANCH OFFICE	1860 Old Okeechobee Road Unit 201 West Palm Beach, Florida 33409	Sub-Surface Utility Locates

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)



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

12. NAME Joseph D. Handley, R.L.A.		13. ROLE IN THIS CONTRACT Principal-In-Charge, Project Manager		14. YEARS EXPERIENCE	
				a. TOTAL 35	b. WITH CURRENT FIRM 30
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 rd Street, Fort Lauderdale, Florida 33309					
16. EDUCATION (DEGREE AND SPECIALIZATION) Clemson University, B.S. in Ornamental Horticulture (1980); University of Georgia & Louisiana St. University, Master in Landscape Architecture Studies (1984)			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Registered Landscape Architect Florida Registration No. 1368 (1990)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) - American Society of Landscape Architects - CPTED Certification (August 1999)					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Bicycle/Pedestrian Greenway & Trails Master Plan Sunrise, Florida	2014	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Handley was the CTA principal in charge for the preparation of the Bicycle / Pedestrian Greenways & Trails Master Plan. The Plan defines a system of sidewalks, bike lanes, paths, greenways and trails that provides integrated and continuous corridors for non-motorized transportation and recreation throughout the City of Sunrise in a manner that is sensitive to the needs of various user groups, the natural and built environment, the management and maintenance, and potential funding capabilities of local government.		
b.	Miramar Parkway & Miramar Boulevard Median Enhancements, Miramar, Florida	2017	2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The project is along Miramar Parkway from the Florida Turnpike to Palm Avenue and along Miramar Boulevard from University Drive to Palm Avenue. The project includes landscaping and hardscape for two main thoroughfares through the City of Miramar. The medians lack aesthetic appeal and require various beautification enhancements. This is Phase I of a multi-phased project. The project requires permitting through the City and Broward County Construction and Highway Engineering Department.		
c.	NE 34 th Court Complete Streets Project, (from NE 2 nd Avenue to Dixie Highway), Oakland Park, Florida	2012 - 2013	2013 - 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal Landscape Architect for the landscape, streetscape and irrigation design for the roadway reconstruction design of approximately 0.60 miles. Estimated Construction Cost: \$2.2 Million.		
d.	NE 5 th Avenue Streetscape & Reconstruction (from Oakland Park Boulevard to NE 38 th Street), Oakland Park, Florida	2010	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal Landscape Architect for the landscape, streetscape and irrigation design for the roadway reconstruction design of approximately 0.60 miles. Construction Cost: \$1,658,000.00.		
e.	NE 38 th Street Complete Streets Project (from Andrews Avenue to NE 11 th Avenue), Oakland Park, Florida	2011 - 2013	2013 - 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal Landscape Architect for the landscape, streetscape and irrigation design for the roadway reconstruction design of approximately 0.90 miles of roadway improvements.		



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

12. NAME Scott W. Peavler, R.L.A.	13. ROLE IN THIS CONTRACT Landscape Architect	14. YEARS EXPERIENCE	
		a. TOTAL 13	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 rd Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) Kansas State University Bachelor in Landscape Architecture (2005)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Registered Landscape Architect Florida Registration No. LA6666976 (2008)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member of American Society of Landscape Architects			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	NE 34 th Court Streetscape Improvements Oakland Park, Florida	2012 - 2013	2013 - 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm A continuation of the street improvements on NE 5th Avenue that intersect 34th Court. Provided landscape designs for streets improvements along NE 34th Court between NE 2nd Avenue and Dixie Hwy. The project consists of improving the streetscape by implementing additional street trees, shrub beds along new sidewalks, and parallel parking. Landscape Architect.		
b.	Coconut Creek Landscape Plan Reviews Coconut Creek, Florida	2012 - Present	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provides landscape consulting services in regards to Landscape plan reviews. The services provided include full DRC reviews, Administrative Approval reviews, Tree Removal/ Relocation reviews, and other additional landscape matters as they pertain to City landscape codes.		
c.	NE 38 th Street Complete Streets Oakland Park, Florida	2011	2013 - 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project involved the provision of professional surveying, landscape architecture and engineering services for the design and permitting of approximately 0.90 miles of roadway improvements. The engineering services included streetscape enhancement, a complete storm drainage system, a roundabout to replace an existing traffic signal, traffic calming devices, landscape, utility coordination and relocation, and full roadway reconstruction. Landscape Architect.		
d.	Sunrise Passive Parks (Oakland Park Boulevard and NW 44 th Street Passive Parks), Sunrise, Florida	2010	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The two parks were designed using amenities such as a Disc Golf Course, Splash Pad, Playground, and other passive activities to fall within the Broward County Land Preservation Program. The design participated in the US Communities grants to reduce the prices of site furnishings and equipment. The design also incorporated environmental principles to be able to acquire the Broward County Land Preservation Grant and other resources for funding. Landscape Architect.		
e.	Ravenswood Bus Maintenance Facility Dania Beach, Florida	2011	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provided landscape services for the 8.94 Acre site which included a parking garage for employees, bus wash, administration buildings, and bus maintenance facilities. The goal for the facility was to provide a functional space by expanding and improving the existing space for the County. In addition to improving the facility, the design team developed the site to minimize the visual impact to the surrounding properties as well as pursue LEED accreditation. Landscape Architect.		



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

12. NAME Patrick J. Gibney, P.E.	13. ROLE IN THIS CONTRACT Lead Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 31	b. WITH CURRENT FIRM 25
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 rd Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) Rutgers, The State University, Bachelor of Science, Civil Engineering (1987)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer - Florida No. 49428 (1995)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Sunrise Boulevard Roadway Project Plantation, Florida	2007 - 2009	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Gibney was Project Manager for the Sunrise Boulevard Project. The project consisted of design and construction engineering inspection services of Roadway, Storm Drainage, Signalization and Landscaping Improvements to an existing four lane roadway from Hiatus Road to Pine Island Road. The overall scope was to widen the roadway to a six-lane section, replace the existing signalization at NW 106 th Avenue, Nob Hill Road and Pine Island Road and install landscape and hardscape throughout the project limits.		
b.	NE 34 th Court Complete Streets Project Oakland Park, Florida	2012 - 2013	2013 - 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for engineering services for the design and permitting of approximately 0.70 miles of roadway improvements on NE 34 th Court from NE 2 nd Avenue to Dixie Highway. The streetscape and engineering services included surveying full roadway reconstruction design, stormwater management, ADICPR modeling and design, utility coordination and relocation, landscape and streetscape enhancement, and all associated jurisdictional permitting. This project utilized FDOT LAP funding for construction.		
c.	SW 41 st Place, Eastside Infrastructure Improvements, Phase I, Town of Davie, Florida	2009	2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager - Cost \$975,000.00. Preparation, permitting and bidding of Phase I of Eastside Infrastructure Improvements, including storm drainage, roadway, water and sanitary sewer improvements.		
d.	NE 38 th Street Complete Streets Project Oakland Park, Florida	2017	Estimated 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the landscape, streetscape and irrigation design for the roadway reconstruction design of approximately 0.90 miles of roadway improvements.		
e.	NE 5 th Avenue Streetscape & Reconstruction Oakland Park, Florida	2010	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. This 0.6-mile roadway project consisted of reconstruction of a two (2) lane roadway, streetscape, paver intersection and crosswalks, addition of parallel parking stalls, 3,000 linear feet of water main replacement, 2,500 linear feet of storm drain installation, sidewalks, landscaping and irrigation, lighting and franchise utility service placement underground. Patrick was the Project Manager responsible for in-house inspections of the roadway, sidewalks, drainage and water systems.		



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

12. NAME Douglas R. Taylor, P.E.		13. ROLE IN THIS CONTRACT Civil Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 34	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 rd Street, Fort Lauderdale, Florida 33309					
16. EDUCATION (DEGREE AND SPECIALIZATION) University of Illinois (UIUC) Bachelor of Civil Engineering (1984)			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer - Florida No. 50569 (1996) Professional Engineer - IL No. 44542 (1988)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) -FEMA ICS 100,200,700,800 - FEMA G300, G400) -Florida Green Building Council -Florida Redevelopment Association APWA					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	LW 2020 Mater Plan Year 1 Improvements Lake Worth, Florida	2013 - 2014	2015 - 2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Director. Project includes design and permitting. Year 1 of the Lake Worth 2020 Master Plan. The project includes the rehabilitation of right-of-way infrastructure including roads, alleys, curb, sidewalk, hardscape, drainage, and potable water. The project includes over 13,000 linear feet of roadway and storm sewer along with in excess of 6,000 linear feet of watermain.		
b.	6 th Avenue South Streetscape Improvements Lake Worth, Florida	2015	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The project limits are 6th Avenue South – Federal Highway to Dixie Highway. The scope of work includes – mill existing pavement 1" +/- and reconstitute existing Type F curb, selective removal/replacement of sidewalk and curbing, striping, ADA ramps, and traffic calming features that will add aesthetic value.		
c.	Kimberly Boulevard Streetscape Project North Lauderdale, Florida	2017	2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Design and permitting of 1.2 miles of roadway, bicycle lane, median enhancements, a roundabout, landscaping, hardscape and lane reduction for an existing four-lane roadway subject to speeding and traffic accidents between autos, pedestrians, and bicyclists, CTA is providing survey, civil engineering, landscape architecture and construction administration and inspection.		
d.	Miami Springs City-Wide ADA Ramps Miami Springs, Florida	2015	2015 - 2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Taylor assisted with the design and permitting of new and replacement ADA ramps throughout the City. The project is funded through the legislative appropriation process. The project includes field evaluation of intersections throughout the City to determine the location of non-conforming or missing ADA ramps. CTA developed a set of construction plans for installation of the ramps per FDOT standards. The plans are currently under review at FDOT.		
e.	Traffic Calming at the Intersections of 123 rd Street & NW 1 st Court, 123 rd Street & Miami Court, NW 139 th Terrace & NW 5 th Court, North Miami	2015	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Engineer - The project involved the development of designs for traffic calming features along NW 123th Street and NW 1 st Court, NW 123 rd Street and NW Miami Court, and 139 th Street NW 5 th Court in the City of North Miami. These intersections had large of expanses of pavement without traffic control and therefore required the implementation of traffic calming features. CTA design elevated intersections, removed pavement and introduced curbing to reduce speeds.		



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

12. NAME Richard Pryce, P.S.M.	13. ROLE IN THIS CONTRACT Lead Surveyor	14. YEARS EXPERIENCE	
		a. TOTAL 46	b. WITH CURRENT FIRM 12
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 rd Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) Associates of Science in Criminal Justice, BCC (1978) Certificate in advanced GIS & Remote Sensing, BCC (2002) Advanced ESRI ARGINFO & ARCIMS Training (ESRI, Charlotte, NC) 2004		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Surveyor and Mapper Florida No. 4038 (1983)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) - Current Director, Broward County Chapter of Florida Surveying Mapping Society - Chairman FSMS GIS Committee - State & County Chapters, Florida surveying & Mapping Society - National Society of Professional Surveyors - Geographic Land Information Society - Chairman FSMS Anti-theft Committee - American Congress on Surveying Mapping			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a. Miramar Historical Area Complete Streets Project Miramar, Florida	2017	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Craven Thompson & Associates, Inc. was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project includes surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62 nd Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The improvements include: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City received a grant through the Broward Redevelopment Program for the improvements.		
b. NE 38 th Street Complete Streets Project Oakland Park, Florida	2011	2013 - 2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Survey Lead, Right-of-way surveys covering from Dixie Highway west to NW 10 th Ave., then North to Prospect Road (2.5 miles). Boundary and topographic elevations for the existing right-of-way for reconstruction design.		
c. NE 34 th Ct. Complete Streets Project Oakland Park, FL	2011 - 2013	2013 - 2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Surveyor - The surveying, landscape, streetscape and engineering services include full roadway reconstruction design, storm water management ICPR modeling and design, utility coordination and relocation, landscape and streetscape enhancement, and all associated jurisdictional permitting.		
d. City of Miami Gardens General Consulting (Surveying) Services Miami Gardens, Florida	2007 - Present	Not Applicable
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Pryce has managed all survey activities on our general consulting services for Miami Gardens capital improvement projects including roadway and drainage improvements; infrastructure improvements; park projects; street resurfacing; traffic improvement projects; and roadway lighting.		
e. North Miami Beach Water and Sewer GIS Pilot Project North Miami Beach, Florida	2014 - 2015	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The purpose of the Pilot Project is to provide the City with the complete GIS product of their water and sanitary system, within a square mile of the City services area.		



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 1
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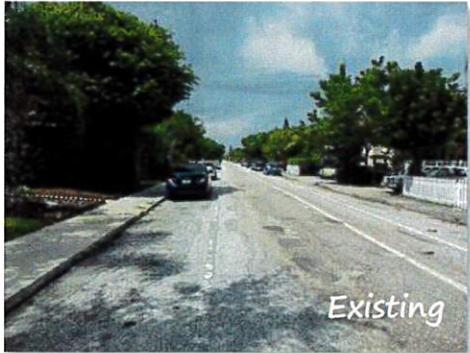
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED
LW 2020 Mater Plan - Year 1 Roadway Improvements Lake Worth, Florida	PROFESSIONAL SERVICES 2014 - 2015
	CONSTRUCTION (If applicable) 2016 (Design & Permit)

23. PROJECT OWNER'S INFORMATION
--

a. PROJECT OWNER City of Lake Worth	b. POINT OF CONTACT NAME Mr. Felipe Lofaso Assistant Director of Public Services	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (561) 586-1720 Email: flofaso@lakeworth.org
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*
 Craven Thompson and Associates, Inc. was contracted with the City of Lake Worth to design, permit and provide construction services for Projects 1, 3, 5, 6 & 8 of Year 1 of the Lake Worth 2020 Master Plan.

Project 1 - N M Street and N K Street from 2nd Avenue N to 6th Avenue N included new watermain and hydrants. N K Street from 2nd Avenue N to 7th Avenue N was in poor condition and required roadway and sidewalk reconstruction. A small segment at the southern end of each road fell within Problem Area 8 of the City's "Stormwater Master Plan", and therefore the storm sewer was upgraded.



Project 3 - N F Street from 5th Avenue N to 10th Avenue N involved the construction of both storm sewer and watermain. No pavement was identified with a PCI at or below 55 and therefore road reconstruction was necessary; however, utility trenching necessitated pavement replacement in trench areas and asphalt overlay.



Project 5 - N M Street from 9th Avenue N to 18th Avenue N involved the reconstruction of roadway. The existing section of road was identified as in a failed condition with a PCI less than or equal to 55. The entire road and base was reconstructed. The majority of the sidewalk also required reconstruction. The existing storm sewer pipe and structures from 16th Avenue N to 18th Avenue N was evaluated as to the condition of the materials. From 9th Avenue N to 16th Avenue N storm sewer was added.

Project 6 - on 11th Avenue N from Dixie Highway to N M Street involved the reconstruction of roadway and storm sewer. Between N M Street and N L Street the existing road was rated as being in a failed or poor condition with a PCI of less than or equal to 55. In these areas the entire road and base was reconstructed. The structural condition of the existing storm sewer pipe and structures along the roadway were evaluated. Piping and/or structures identified as in poor structural condition were replaced.

Project 8 - N J Street from 13th Avenue N to 16th Avenue N, and 15th Avenue N from N J Street to the railroad tracks, and 14th Avenue N from N J Street to Dixie Highway was identified as a part of Problem Area 3 in the "Stormwater Master Plan". This project included the installation of 700 linear feet of 24-inch diameter exfiltration trench with a nutrient separating baffle box at the end of the trench, the replacement of 950 linear feet of existing 18 and 24-inch diameter storm sewer with 30-inch diameter RCP storm sewer, and the replacement of 70 linear feet of existing 12-inch diameter storm sewer with 24-inch diameter RCP storm sewer.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT
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(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 rd Street Fort Lauderdale, Florida 33309	(3) Role Prime - Surveying, Civil Engineering, Utilities, Storm Water, Storm Sewer, and Construction Inspection Services
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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
3

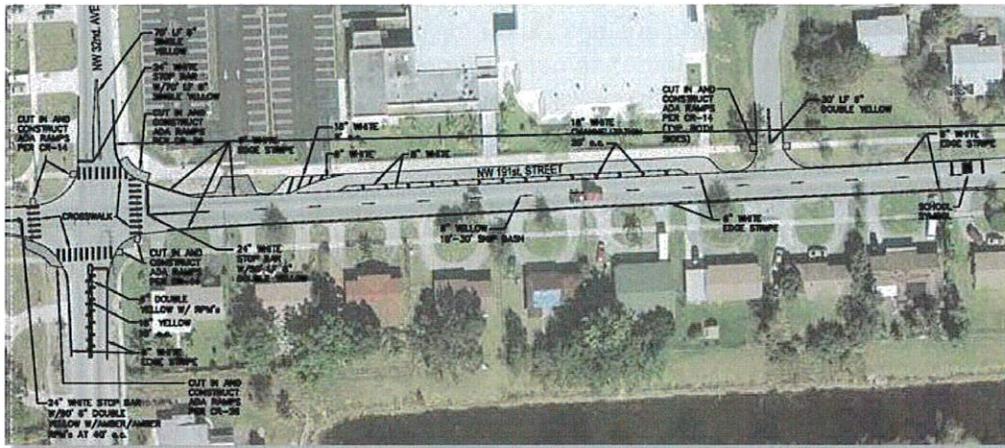
21. TITLE AND LOCATION (CITY AND STATE) Resurfacing & ADA Walk Improvement Project Miami Gardens, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2014
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23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Miami Gardens	b. POINT OF CONTACT NAME Mr. Tom Ruiz Public Works Director	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (786) 279-1260 Email: truiz@miamigardens-fl.gov
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The resurfacing and ADA walk improvements included approximately 24,000 linear feet of road throughout the city in three neighborhoods. The neighborhoods consist of a mixture of single and multi-family residential dwellings. Significant amounts of the existing roadway infrastructure within these neighborhoods did not meet current ADA requirements, which warranted attention in order to conform to current standards. In order to address the infrastructure needs, the City of Miami Gardens selected Craven Thompson & Associates, Inc. to analyze the roadway corridors within the project areas to determine necessary resurfacing and ADA improvements. Craven Thompson prepared plans for the resurfacing of all roads after having borings prepared to analyze the existing roadway conditions. Concurrently, the area was reviewed for sidewalk and ADA improvements to ensure compliance with ADA standards. The project involved coordination with **FDOT for LAP funding** and design criteria, and the development of construction drawings and specifications.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53rd Street Fort Lauderdale, Florida 33309	(3) Role Prime - Civil Engineering – ADA, Milling & Re-Surfacing, Storm Water & Engineering Studies
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role



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

20. EXAMPLE PROJECT KEY NUMBER
5

21. TITLE AND LOCATION (CITY AND STATE) 6TH Avenue South Streetscape Project Lake Worth, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2016

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Lake Worth	b. POINT OF CONTACT NAME Mr. Felipe Lofaso Assistant Director of Public Services	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (561) 586-1720 Email: flofaso@lakeworth.org
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*
 The project limits are 6th Avenue South – Federal Highway to Dixie Highway. The scope of work includes – mill existing pavement 1" +/- and reconstitute existing Type F curb, selective removal/replacement of sidewalk and curbing, striping, ADA ramps, and traffic calming features that will add aesthetic value.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 rd Street Fort Lauderdale, Florida 33309	(3) Role Prime - Surveying, Civil Engineering, Landscape Architecture, Construction Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



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 7
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21. TITLE AND LOCATION (CITY AND STATE) Oakland Park Blvd Median Beautification Project Oakland Park, Florida	22. YEAR COMPLETED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">PROFESSIONAL SERVICES 2014</td> <td style="width: 50%; text-align: center; padding: 5px;">CONSTRUCTION (If applicable) 2017</td> </tr> </table>	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2017
PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2017		

23. PROJECT OWNER'S INFORMATION		
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a. PROJECT OWNER City of Oakland Park	b. POINT OF CONTACT NAME Ms. Jennifer Frastai, ICMA-CM, Director of Engineering & Community Development	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 630-4477 Email: Jenniferf@oaklandparkfl.gov
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>
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Craven Thompson & Associates, Inc. was retained by the City of Oakland Park to enhance the aesthetic appeal of Oakland Park Boulevard (State Road 816) from NW 31st Avenue to I-95 (within the City limits) through landscaping improvements in the median of the multi-lane state highway. These improvements require review and approval from both the City and the Florida Department of Transportation (FDOT).



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
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a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 rd Street Fort Lauderdale, Florida 33309	(3) Role Prime – Median Enhancements, Landscape Architecture, and Survey Services
b.	(1) FIRM NAME Masuen Consulting, LLC	(2) FIRM LOCATION <i>(City and State)</i> 32801 Highway 441 N. #293 Okeechobee, Florida 34972	(3) Role Sub-consultant - Landscape Irrigation Design
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



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 9
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21. TITLE AND LOCATION (CITY AND STATE) Sense of Place Signage Oakland Park, Florida	22. YEAR COMPLETED <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">PROFESSIONAL SERVICES 2012</td> <td style="width: 50%; text-align: center; padding: 5px;">CONSTRUCTION (If applicable) 2012</td> </tr> </table>	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2012
PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2012		

23. PROJECT OWNER'S INFORMATION
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a. PROJECT OWNER City of Oakland Park	b. POINT OF CONTACT NAME Ms. Jennifer Frastai, ICMA-CM, Director of Engineering & Community Development	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 630-4477 Email: Jenniferf@oaklandparkfl.gov
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Sense of Place project began with a neighborhood and City Commission that wanted to apply CPTED (Crime Prevention Through Environmental Design) principals to an Oakland Park neighborhood by creating a "Sense of Place" feature that the residents would promote the idea of ownership to the community. The City had gone through a variety of "Sense of Place" ideas but the project was not progressing. When Craven Thompson & Associates, Inc. was invited to become involved, we immediately began developing ideas and preparing Photoshop renderings of those ideas to present to the City Commission and the Community. The above design was enthusiastically accepted, designed and put out for public bid. The bids came in under budget and the project was completed on schedule.



Existing



Proposed



Rendering of Proposed Entrance



Photograph of Completed Entrance

FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT
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a. (1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 rd Street Fort Lauderdale, Florida 33309	(3) Role Prime - Streetscape, Landscape Architecture
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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
11

21. TITLE AND LOCATION (CITY AND STATE) NE 5th Avenue Corridor Streetscape & Drainage Improvements (from Oakland Park Boulevard to NE 38th Street), Oakland Park, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES March 2011	CONSTRUCTION (If applicable) 2012
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23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Oakland Park	b. POINT OF CONTACT NAME Ms. Jennifer Frastai, ICMA-CM, Director of Engineering & Community Development	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 630-4477 Email: Jenniferf@oaklandparkfl.gov
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)
 The City of Oakland Park awarded Craven Thompson & Associates the design contract for the landscape and streetscape, and drainage, improvements to the NE 5th Avenue Corridor from Oakland Park Blvd. to NE 38th Street; approximately 0.60 miles. The services included: full roadway reconstruction design, landscape, hardscape, storm water management ADICPR modeling and design, utility coordination and relocation, and all associated jurisdictional permitting. This project utilized federal grant funding for construction; specifically, a Community Development Block Grant - Recovery Project Fund (CDBG-R) for which CTA played a vital role in helping the City of Oakland Park procure.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 rd Street Fort Lauderdale, Florida 33309	(3) Role Prime - Civil Engineering, Surveying, Landscape Architecture, and Construction Management
b.	(1) FIRM NAME Masuen Consulting, LLC	(2) FIRM LOCATION (City and State) 32801 Highway 441 N. #293 Okeechobee, Florida 34972	(3) Role Sub-consultant - Landscape Irrigation Design



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
13

21. TITLE AND LOCATION (CITY AND STATE) City of Coconut Creek Landscape Plan Review Services Coconut Creek, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2012 - Present	CONSTRUCTION (If applicable) N/A
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23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Coconut Creek Planning & Zoning Dept.	b. POINT OF CONTACT NAME Ms. Sheila Rose Director of Sustainable Development	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 973-6756 Email: srose@coconutcreek.net
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

For the City of Coconut Creek, Craven Thompson & Associates, Inc. provides landscape consulting services in regards to Landscape plan reviews. The services provided include full DRC reviews, Administrative Approval reviews, Tree Removal/ Relocation reviews, and other additional landscape matters as they pertain to City landscape codes.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 rd Street Fort Lauderdale, Florida 33309	(3) Role Prime - Landscape Architectural Plan Review Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



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
15

21. TITLE AND LOCATION (CITY AND STATE) 69th Street Greenway Design Guidelines Coconut Creek, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) N/A
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23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Coconut Creek Planning & Zoning Dept.	b. POINT OF CONTACT NAME Ms. Sheila Rose Director of Sustainable Development	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 973-6756 Email: srose@coconutcreek.net
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Craven Thompson worked with the City of Coconut Creek to develop and prepare an illustrative Design Guidelines package complete with conceptual plans and typical sections to give future developers an understanding of the design intent for the 69th Street Greenway. The Design Guidelines package included landscape guidelines, plans, typical sections, plant palettes, typical lighting elements, and site amenities per the City of Coconut Creek standards. Craven Thompson worked with the City of Coconut Creek to develop and prepare an illustrative Design.

Scientific Name	Common Name	Specifications
<i>Quercus laevis</i>	Live Oak	2" Cal. 12' DBH MIN
<i>Sabal palmetto</i>	Saw Palmetto	2" Cal. 12' DBH MIN
<i>Rhus glabra</i>	Wild Coffee	2" Cal. 12' DBH MIN
<i>Pinus slash</i>	Slash Pine	2" Cal. 12' DBH MIN
<i>Adiantum giganteum</i>	Giant Sword Fern	2" Cal. 12' DBH MIN
<i>Chlorophytum comosum</i>	Palm-A-Dell Grass	2" Cal. 12' DBH MIN

WATERING:
 - FOR IRRIGATION IS NOT REQUIRED FOR GREENWAY PLANTING, HOW EVER, HAND WATER FOR PLANT ESTABLISHMENT IS REQUIRED. A 3 MONTH WATERING PERIOD IS REQUIRED FOR TYPICAL PLANT MATERIAL AND 6 MONTHS FOR LIVE OAKS.
 - WATERING SCHEDULE IS AS FOLLOWS:
 WATER EVERY DAY FOR THE FIRST TWO WEEKS, THEN EVERY OTHER DAY FOR THE FOLLOWING TWO WEEKS. FOR THE REMAINING TIME, WATERING SHALL BE DONE TWICE A WEEK.
 - CONTRACTOR SHALL GUARANTEE THE INSTALLED PLANT MATERIAL FOR ONE YEAR UPON FINAL ACCEPTANCE BY THE CITY. THE CITY WILL TAKE RESPONSIBILITY AND MAINTENANCE AT THAT TIME.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53rd Street Fort Lauderdale, Florida 33309	(3) Role Prime - Landscape Architecture, Planning
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role



H. ADDITIONAL INFORMATION

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

Craven Thompson & Associates, Inc. (CTA) has been an industry leader in the South Florida area since our inception in 1962. With our office located in Broward County, we have established a high-profile presence through the years with a reputation of excellent service to many varied clients, performing the full range of professional services. We have worked closely with many governmental agencies to provide services such as roadway design, landscape architecture, neighborhood improvements, water and wastewater design, GIS/Mapping, surveying, planning, storm water management, streetscape, complete streets, roadway beautification and construction management.

CTA has been providing professional services to the Tri-County area since the formation of the firm. CTA has been involved in the design, permitting, surveying, contract administration and construction management of numerous infrastructure rehabilitation projects, redevelopment projects and Capital Improvement Projects, including roadway design, streetscape, traffic calming, roadway beautification, complete streets, the replacement and upgrade of water and sewer lines, new infrastructure, sewage pump stations, storm water drainage projects, and waterway projects. Our experience includes the design and construction of parks, roadways and all levels of stormwater management and drainage and municipal facilities. All of these projects included surveying, studies, modeling, cost estimating, design drawings, technical specifications and construction management for the replacement/rehabilitation of existing roadways and infrastructure and the construction of new drainage facilities, pavement and landscaping.

CTA presents many distinct and unique advantages which will assure timely and cost-effective completion of projects. These advantages include the following:

- An experienced team: CTA staff has extensive experience with various types of unusual and difficult projects.
- Full service firm: CTA can provide all of the civil engineering, surveying landscape architecture, planning, GIS and construction support services needed in-house.
- Project management: Organization lines and responsibilities are clearly defined for each project, ensuring that the best qualified individual is matched to a particular assignment.
- Familiarity with Broward County agencies and engineering practices.
- Continuity: The Resources and staff available at CTA ensure responsive service and continuity throughout all phases of projects.

I. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts

31. SIGNATURE

32. DATE
July 9, 2018

33. NAME AND TITLE

Joseph Handley, R.L.A., Vice President, Planning & Landscape Architecture



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Adebayo Coker, P.E.	13. ROLE IN THIS CONTRACT Senior Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 25	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION <i>(City and State)</i> HBC Engineering Company, Miami, FL		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer, Florida, No. 55322	
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. Civil Engineering		18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>	

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> I-95 Northbound and Southbound Rigid Pavement Rehabilitation, Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager for rehabilitation of the existing concrete pavement of southbound mainline I-95 and 3 ramps. Responsibilities included but not limited to coordination with FDOT maintenance and Traffic Management Center, coordination of personnel for the design activities and supervision of roadway design and Maintenance of Traffic.			
b.	(1) TITLE AND LOCATION <i>(City and State)</i> I-595 Corridor Roadway Improvements Project, Broward County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager. Performed interdisciplinary coordination of structural, geotechnical, utilities, drainage, MOT, SUE, and surveying for this private-public partnership project (P3) which extends from I-75 to I-95, approximately 14 miles. Reviewed engineering design plans for roadway, utilities, drainage, ITS, signalization, structures, TCP and lighting.			
c.	(1) TITLE AND LOCATION <i>(City and State)</i> SR 858/Hallandale Beach Blvd, Hollywood, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager, primarily responsible to manage all aspects of project. Responsibilities included coordination of 8" water main and fire hydrant relocation with Broward County. This section of roadway is classified as an urban principal arterial, a 4 lane divided section with 12' thru lanes.			
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Northeast Transit Hub Enhancements, Miami, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
EOR for improvements on a major transit hub/transit center, design of bus stops included design of bus bays and retrofits to conform to established guidelines and standards, including ADA. Scope included enhancements to NE 167 Street Bus Hub between NE 14 Court and NE 15 Ave, reconstruction of 3 on-street, parallel bus bays, 3 bus shelters.			
e.	(1) TITLE AND LOCATION <i>(City and State)</i> SW 147 Avenue from SW 26 Street to SW 10 Street, Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager responsible for design of horizontal and vertical alignment, storm drainage system, cross sections, drainage structures for proposed reconstruction project. Project required extensive coordination with South Florida Water Management District and DERM for environmental permits. Also generated S&M, lighting and traffic control plans.			

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

20. EXAMPLE PROJECT KEY NUMBER
1

21. TITLE AND LOCATION *(City and State)*
 Northeast Transit Hub Enhancements, Miami, Florida

22. YEAR COMPLETED
 PROFESSIONAL SERVICES: 2013
 CONSTRUCTION *(If applicable)*

23. PROJECT OWNER'S INFORMATION

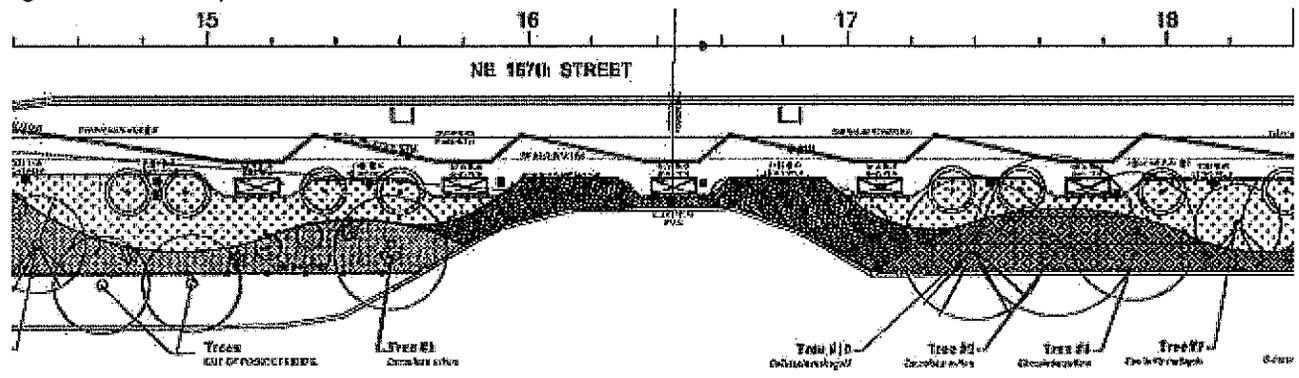
a. PROJECT OWNER
 Miami-Dade Transit

b. POINT OF CONTACT NAME
 Orlando Capote, P.E.

c. POINT OF CONTACT TELEPHONE NUMBER
 786-469-5248

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

Preparation of a set of construction documents for Miami-Dade Transit Department to be used by the contractor to build the proposed passenger facilities and roadways located at:
 1) NE 167th Street Bus Hub between NE 14th Court and NE 15th Avenue
 2) NE 15th Avenue Bus Hub south of NE 167th Street
 3) NE 15th Avenue Bus Stop north of NW 165th Street
 The project addresses multiple deficiencies including those related to bus stops, bus shelters, capacity, drainage, pavement. Responsibilities include: topographic surveys, environmental permitting, utility coordination, utility locate services, structural design for canopy structure, roadway analysis, typical section design, pavement design, traffic control analysis, drainage analysis, roadway design, landscaping, architectural design of prefab bus shelters, and enhancements to bring facilities to compliance with ADA standards.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	HBC Engineering Company	Miami, FL	Site/Civil, paving, grading, drainage & Signage
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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

20. EXAMPLE PROJECT KEY NUMBER
3

21. TITLE AND LOCATION <i>(City and State)</i> SR 858 Hallandale Beach Blvd.	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER FDOT 4	b. POINT OF CONTACT NAME James Hughes	c. POINT OF CONTACT TELEPHONE NUMBER 954-777-4419
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*
 Performed traffic signal analysis for five intersections to enhance their traffic operation and safety along SR 858. Field data were collected and reviewed. The review included: Existing signal and pedestrian phasing; controller make, model, capabilities and condition/age; Condition of signal structure(s); Type of detection as compared with current district standards; Interconnect Media; and controller.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	HBC Engineering Company	Miami, FL	Traffic Engineering
b.			
c.			
d.			
e.			
f.			

H. ADDITIONAL INFORMATION

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

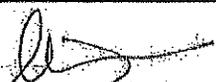
HBC was founded in 2006 to provide full-service, multi-disciplined consulting, planning and transportation engineering services to public and private sectors clients. Our clients include Federal Department of Transportation (FDOT), Miami-Dade Expressway Authority (MDX), Miami-Dade Transit (MDT), and multiple local municipalities and private clients, including City of Miami, Miami-Dade County Water & Sewer, and City of Marathon.

Our team is poised to deliver a full array of design and engineering services for all types of civil engineering projects, including transit/rail, aviation, marine, highway/bridges, energy & power services, canal dredging, drainage, and seaports. We work with clients and stakeholders to understand project issues, from funding shortfalls and environmental concerns, to managing public and political expectations. Our professionals have extensive experience in design procedures and guidelines.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

7/3/2018

33. NAME AND TITLE

Adebayo Coker, PE Senior Engineer

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

12. NAME Wayne Webb, PE	13. ROLE IN THIS CONTRACT Engineering Testing Services	14. YEARS EXPERIENCE	
		a. TOTAL 27	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION (City and State)
Absolute Civil Engineering Services, LLC, Davie, FL

16. EDUCATION (DEGREE AND SPECIALIZATION)
MPH Research Studies; B.S. / Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Professional Engineer / FL

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

Mr. Wayne Webb currently serves as the Vice President and Principal Engineer of Absolute Civil Engineering Consulting, LLC. Since the inception of his career in Florida 26 years ago, Mr. Webb has spent the last two decades successfully managing a variety of geotechnical, environmental, and structural engineering and testing contracts within the State of Florida. His focus has been providing Soil Exploration, Foundation Studies, Construction Materials Testing, Construction Engineering Inspection services for a wide range of projects such as schools, ports, hotels, office buildings, parking structures, large mixed-use developments, and transportation projects. Mr. Webb is has been performing work that includes the acquisition and reporting of subsurface material, hydrological, and environmental information to be used for the planning, design, construction, and performance of transportation facilities.

Mr. Webb routinely performs Standard Foundation Studies which includes producing reports which select the type (shallow foundations, piles, and redundant drilled shafts) and depth of foundation for bridges and other structures supplying the lateral, tensile and bearing capacities and the predicted settlement of the selected foundation. Mr. Webb is experienced in slope stability analysis, surcharge or stage construction time schedules for construction over soft ground, pile load tests, soil treatment, stabilization and direction of field instrumentation installation, including the interpretation of data obtained and other foundation studies using the applicable Department Standard Specifications for Road and Bridge Construction, and Federal Highway Administration guidelines and checklist.

Mr. Webb is also proficient in performing and implementing Soil Exploration Programs. This work typically includes acquisition and reporting of subsurface material, hydrological, and environmental information to be used for planning, design, construction and performance of transportation facilities. His skills include on-site investigations using soil borings, Standard Penetration Tests, Cone Penetration tests and rock coring. He has worked in a geotechnical laboratory in a college setting and is familiar with the use of specialized test equipment such as the field vane, pressure-meter, dilatometer, tri-axial testing and consolidation test equipment to name a few. His skills in the science of field classification of material and the accurate description of soil and rock samples are outstanding.

Awards: "2014 Engineer of the Year - Broward County Building Officials Association" & "2014 Best of Davie Award Winner for Engineering"

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Greenway Bridges, Miami-Dade County Florida Project No. 41833315801	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Contract Manager and Project Engineer. Wayne Webb, PE served as verification Project Engineer performing verification testing and CEI on the steel bridge, concrete bridge deck, asphalt paved areas and pile foundation system for two pedestrian bridges in south Miami Dade county for the Miami Dade Park, Recreation and Open Spaces Department. The project is funded by the FDOT. Mr. Webb's duties also include reviewing and verifying Geotechnical data, pile load testing and foundation Studies regarding the installation and testing of the pile foundation system as well as verification related to Concrete Material Testing and Thermoplastic Pavement Marking Inspections. All work was performed in accordance with the appropriate local, FDOT, federal, and state standards. Fee 35K	<input checked="" type="checkbox"/> Check if project performed with current firm	

b.	(1) TITLE AND LOCATION (City and State) Communication Poles/Towers: Geotechnical Investigation, Foundation Studies & Foundation Modification Studies Continuing Contract for Caltrop Corp in Florida.	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Contract Manager and Project Engineer. Wayne Webb, PE served as Geotechnical Engineer performing various Geotechnical Investigation, Foundation Studies, Consulting Engineering and Foundation Modification Design Services for the design, construction, modification and reconfiguration of several communication poles/towers in the South Florida area for Caltrop Corporation. The work includes the performance of multiple Geotechnical Investigations and Foundation Modification Studies on several sites for the installation of telecommunication poles/towers and modifications to existing towers throughout Orange County, St. Lucie County, Palm Beach County, Broward County, Miami-Dade County and Monroe County, FL. Mr. Webb is responsible for providing written report including a description of the site, fieldwork, laboratory testing and general soil conditions encountered, as well as a Boring Location Plan, and individual Boring Records, site preparation considerations that include geotechnical discussions regarding site stripping and subgrade preparation, and engineered fill/backfill placement (where required), The field measured groundwater level, foundation system recommendations for the structure, including allowable foundation capacity, recommended bearing depth(s) for piles if recommended, and installation considerations, recommended quality control measures (i.e. sampling, testing, and inspection requirements) for site grading and foundation construction, suitability of on-site soils for re-use as structural fill and backfill. Additionally, the criteria for suitable fill materials is provided. Fee \$100,00K	<input checked="" type="checkbox"/> Check if project performed with current firm	

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 1
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21. TITLE AND LOCATION <i>(City and State)</i> Communication Poles/Towers: Geotechnical Investigation, Foundation Studies & Foundation Modification Studies Continuing Contract	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013-2016	CONSTRUCTION <i>(if applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Caltrop	b. POINT OF CONTACT NAME Shawn Walker	c. POINT OF CONTACT TELEPHONE NUMBER (954) 874-7870
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Absolute Civil Engineering Solutions (ACES) performed various **Geotechnical Investigation, Foundation Studies, Consulting Engineering and Foundation Modification Design Services** for the design, construction, modification and reconfiguration of several communication poles/towers in the South Florida area for Caltrop Corporation. The work includes the performance of multiple Geotechnical Investigations and Foundation Modification Studies on several sites for the installation of telecommunication poles/towers and modifications to existing towers throughout Orange County, St. Lucie County, Palm Beach County, Broward County, Miami-Dade County and Monroe County, FL. ACES is responsible for providing written report including a description of the site, fieldwork, laboratory testing and general soil conditions encountered, as well as a Boring Location Plan, and individual Boring Records, site preparation considerations that include geotechnical discussions regarding site stripping and subgrade preparation, and engineered fill/backfill placement (where required), The field measured groundwater level, foundation system recommendations for the structure, including allowable foundation capacity, recommended bearing depth(s) for piles if recommended, and installation considerations, recommended quality control measures (i.e. sampling, testing, and inspection requirements) for site grading and foundation construction, suitability of on-site soils for re-use as structural fill and backfill. Additionally, the criteria for suitable fill materials is provided. Total Contract Value: \$100,000.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Absolute Civil Engineering Solutions, LLC	(2) FIRM LOCATION <i>(City and State)</i> 4121 SW 47 th Avenue, Suite 1318, Davie, FL 33314	(3) ROLE Prime
b. (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c. (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d. (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e. (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f. (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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 3
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21. TITLE AND LOCATION <i>(City and State)</i> SW 47 Avenue from Coral Way to US 1, Miami, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Miami-Dade County Public Works	b. POINT OF CONTACT NAME Carlos Palmas	c. POINT OF CONTACT TELEPHONE NUMBER (305) 375-2111
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Absolute Civil Engineering Solutions (ACES) performed Asphalt Core Drilling and Density Testing on a section of re-surfaced road on SW 47th Avenue from Coral Way to US 1. Total Contract Value: +/- \$3,000.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Absolute Civil Engineering Solutions, LLC	(2) FIRM LOCATION <i>(City and State)</i> 4121 SW 47 th Avenue, Suite 1318, Davie, FL 33314	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Lillian Reyes	13. ROLE IN THIS CONTRACT President	14. YEARS EXPERIENCE	
		a. TOTAL 28	b. WITH CURRENT FIRM 20

15. FIRM NAME AND LOCATION (City and State)
Electrical Design Associates, Inc. (Lake Worth)

16. EDUCATION (DEGREE AND SPECIALIZATION)
Bachelors of Science in Electrical Engineering
Florida Atlantic University / 1988

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
FL Professional Engineer # 50780

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Florida Engineering Society (FES), Illuminating Engineering Society (IES), & National Fire Protection Association (NFPA).

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	Rutland Blvd. Lighting Improvements West Palm Beach, Florida	2014	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EDA provided photometric evaluation for the roadway lighting along Rutland Blvd originating at Olive Avenue and extending east, an approximate length of 1600 LF. The photometric evaluation was completed based on the City standard Lumec type fixture model S55-40W-LED. EDA reviewed and revised the electrical design associated with the roadway lighting along Rutland Blvd, and performed general services during construction.		
<input checked="" type="checkbox"/> Check if project performed with current firm			
b.	NE 1st Avenue Lighting Improvements Delray Beach, Florida	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EDA provided photometric evaluation and electrical design for the roadway lighting along NE 1st Avenue originating at NW 1st Street and extending north to NW 2nd Street, an approximate length of 650 LF. The photometric evaluation was completed in accordance with the City ordinances, IES recommendations and the NEC.		
<input checked="" type="checkbox"/> Check if project performed with current firm			
c.	SW 12th Avenue, Auburn Avenue, & SW 14th Avenue Delray Beach, Florida	2011	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EDA provided the Photometric evaluation and roadway lighting design for the roadway lighting along SW 12th Avenue originating at Atlantic Avenue and extending south to SW 1st Street, an approximate length of 350 LF. The photometric evaluation and design were completed in accordance with the City ordinances, IES recommendations, and the NEC.		
<input checked="" type="checkbox"/> Check if project performed with current firm			
d.	CROC Parking Lot Expansion Palm Beach County, Florida	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EDA provided photometric evaluation and electrical design associated with the proposed parking lot expansion in accordance with PBC Ordinances and IES Standards. The pole mounted assembly consisted of an 80C Type III LED fixture at a mounting height of 20' above finished grade. Evaluation was based on the D-Series LED Luminaire as manufactured by Lithonia Lighting. EDA performed a light level test following the installation of the pole mounted lighting assemblies.		
<input checked="" type="checkbox"/> Check if project performed with current firm			
e.	NE 174th Street Roadway Lighting Improvements Sunny Isles, Florida	2004	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EDA provided photometric evaluation and electrical design associated with the lighting improvements along NE 174th Street originating at Collins Avenue and extending approximately 0.5 miles to the west. Our evaluation was based on the installation of the Halophane Tear Drop type fixture mounted at approximately 22.5 feet above grade.		
<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 1
21. TITLE AND LOCATION (City and State) Rutland Blvd. Lighting Improvements West Palm Beach, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2016
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of West Palm Beach	b. POINT OF CONTACT NAME Tracy Ward	c. POINT OF CONTACT TELEPHONE NUMBER 561-494-1040

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

Electrical Design Associates, Inc. was contracted to provide electrical engineering services for the referenced project. Our scope of services included the following:

1. Photometric evaluation for the roadway lighting along Rutland Blvd originating at Olive Avenue and extending east, an approximate length of 1600 LF. The photometric evaluation was completed based on the City standard Lumec type fixture model S55-40W-LED. The photometric calculations were completed based on this information and in accordance with the City ordinances, IES recommendations and the NEC.
2. EDA reviewed and revised the electrical design associated with the roadway lighting along Rutland Blvd originating at Olive Avenue and extending east, an approximate length of 1600 LF based on the revised base plan and the revised photometric evaluation. The design was completed in accordance with the City ordinances, IES recommendations and the NEC.
3. EDA performed general services during construction including shop drawing review, issue clarification, and site visits.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Electrical Design Associates, Inc.	(2) FIRM LOCATION (City and State) Lake Worth, FL	(3) ROLE Electrical Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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 3
21. TITLE AND LOCATION <i>(City and State)</i> Drexel Road Street Lighting Project Palm Beach County, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(if applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Palm Beach County	b. POINT OF CONTACT NAME Ali Sardina	c. POINT OF CONTACT TELEPHONE NUMBER 561-684-4000

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

Electrical Design Associates, Inc. was contracted to provide electrical engineering services for the referenced project. Our scope of work included the following:

1. EDA verified existing conditions along Drexel Road originating at Belvedere Road extending north to Okeechobee Blvd, an approximate length of 5400 Linear Feet. The existing roadway is a two-lane roadway with an overhead distribution line along the west side of the roadway. The area consists primarily of residential properties, single family, multifamily and mobile homes, Wynnbrook Elementary School and a shopping center at the north end.
2. EDA prepared a photometric plan utilizing cut-off type luminaires in accordance with FDOT lighting criteria and standards to determine a suitable design that included criteria for:
 - Mounting Height
 - Fixture Placement
 - Bracket Arm Length in conjunction with location of the poles
 - Light Fixture equipment, wattage, cut-off features, IES curves, etc.
 - Light Pole Spacing
 - Lighting Criteria including Initial Illumination and Uniformity Ratios
3. EDA coordinated with FPL as to the feasibility of utilizing the existing poles and the use of the standard FPL equipment including but not limited to luminaire type, wattage and bracket size.
4. EDA prepared layout plans indicating location of lights on existing poles, location of additional poles if needed, a Typical section, general notes and a pole data table indicating pole number, fixture wattage and type, pole station, pole setback, bracket size, mounting height and lighting criteria.
5. EDA identified and resolved all conflicts with existing landscape and underground/overhead utilities.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Electrical Design Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Lake Worth, FL	(3) ROLE Electrical Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andres Garcia	13. ROLE IN THIS CONTRACT Utility Location Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 21	b. WITH CURRENT FIRM 21

15. FIRM NAME AND LOCATION *(City and State)*
 InfraMap Corp., West Palm Beach, FL

16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Palm Beach Community College Currently Seeking Associates Degree in Science Training: IMC Training Program for Utility Locating & Designating Certification / Instructor ATSSA, Traffic Control Supervisor Certification Confined Space Entry Training Program	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Mr. Garcia has performed utility locating assignments for InfraMap Corp. in Florida, Virginia, Maryland, Georgia and Alabama. He currently is a Senior Utility Location Manager and is proficient with utility designating, performing test holes, and utility CAD. Mr. Garcia's responsibilities include: Utility Designation, Radar Tomography and Test Hole project management, attending utility scoping meetings, permitting, records research, traffic control supervision, field data collection and Quality Control review. His duties also include vacuum excavation equipment maintenance as well as FDOT Standards Compliance. Mr. Garcia has excelled as Survey Party Chief with experience in total station survey and data collector knowledge (electronic field book, TDS functions, and 3 wire bench runs on several designating and utility locating projects).

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
Florida Department of Transportation, District 6 Subsurface Utility Designating and Locating (Test Hole) Service Contract	On call through 2018	
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	Check if project performed with current firm <input checked="" type="checkbox"/>	
FDOT District 6 Biscayne Boulevard, Miami, FL: This project included approximately 232 Test Holes along Biscayne Boulevard, from NE 15 Street to NE 35 Terrace and required supervision of multiple crews to complete the project at our client's requested schedule. Mr. Garcia provides detailed communication with FDOT personnel throughout the project for quality assurance.		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
Florida Department of Transportation, District 6 Subsurface Utility Designating and Locating (Test Hole) Service Contract	On call through 2018	
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	Check if project performed with current firm <input checked="" type="checkbox"/>	
FDOT District 6 Designating SR826 / SR 836 Interchange, Miami, FL: This designating project entailed proposed design of six intersections. Mr. Garcia supervised the designating as well as 53 test holes that followed in order to gather all potential conflict data. His detailed investigation was noted on our submittal. Quality control also performed by Mr. Garcia.		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
Florida Department of Transportation, District 6 Subsurface Utility Designating and Locating (Test Hole) Service Contract	On call through 2018	
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	Check if project performed with current firm <input checked="" type="checkbox"/>	
FDOT District 6 Various Locations Florida Keys Drainage, FL: Mr. Garcia supervised the location of utility conflicts for proposed drainage along US1 in Grassy Key and Plantation Key. Our equipment allows him to set up the test holes to be performed days prior to the initial project commencement. Mr. Garcia adds in depth notes to the test hole inventory report in addition to the 53 test hole forms of every investigation revealed along with thorough quality control.		

<p>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></p>	<p>20. EXAMPLE PROJECT KEY NUMBER 2</p>
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<p>21. TITLE AND LOCATION <i>(City and State)</i> Open-End District Contract for Subsurface Utility Designating and Locating Florida Department of Transportation - District 6</p>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES On Call Through 2018	CONSTRUCTION (if Applicable)

23. PROJECT OWNER'S INFORMATION

<p>a. PROJECT OWNER Florida Department of Transportation District 6</p>	<p>b. POINT OF CONTACT NAME Mr. Tony Soto</p>	<p>c. POINT OF CONTACT TELEPHONE NUMBER (305) 470-5232</p>
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25. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Subsurface Utility Engineering Services and Utility Infrastructure Mapping Contract including: Utility Designating, Air/Vacuum Test Holes, Survey, and MicroStation CADD on Highway projects through the state of South Carolina in support of the FDOT's pre-design program through private consultants and in-house design program.



Contract Cost: \$3,000,000

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	InfraMap Corp.	West Palm Beach, FL	Prime
b.			
c.			
d.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Judy Jensen, LEED AP	13. ROLE IN THIS CONTRACT Irrigation Designer	14. YEARS EXPERIENCE	
		a. TOTAL 13	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION (City and State) Masuen Consulting LLC, Mineral Buff, GA			
16. EDUCATION (Degree and Specialization) AAS in Architecture Building Technology		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) CLIA, CGIA, LEED AP			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	92nd Street Park, Bay Harbour Islands, Florida	2009	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Irrigation system design for a small community park; utilized turf rotary and soil moisture sensor technology for water conservation and tradition controls.		<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	Halpatiokee Park, Martin County, Florida	2009	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design of an irrigation system for a new County Park, including areas planted for naturalization with temporary irrigation.		<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	Port St. Lucie Botanical Garden, Port St. Lucie, Florida	2007-2008	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Irrigation system design for a new botanical garden providing a surface water pump system and recharge pump. The control system provided flexibility for future garden 'rooms' to be added as garden is funded/developed. Turf rotary and soil moisture sensor technology utilized for water.		<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	Headquarters Honda, Lake County, Florida	2008	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Landscape Irrigation System design to accommodate the green space and includes coordination between the cisterns (by others) and the irrigation pump system. This was a LEED project.		<input checked="" type="checkbox"/> Check if project performed with current firm	
e.			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

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 2
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21. TITLE AND LOCATION (City and State) Miramar Regional Park Miramar, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2002 - 2008	CONSTRUCTION <i>(if applicable)</i>

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Miramar	b. POINT OF CONTACT NAME Mr. Luis Lopez, P.E. Director of Engineering Services	c. POINT OF CONTACT TELEPHONE NUMBER (954) 602-3316
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Phased park project which included multiple ball fields, soccer fields, and other recreation areas. Responsible for all phases of the irrigation design including the pump stations.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Masuen Consulting, LLC	(2) FIRM LOCATION <i>(City and State)</i> Oakland Park, Florida	(3) ROLE Irrigation Design and Construction Management
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

PROFILE OF CONSULTANT

a. Classification of Organization

Craven Thompson & Associates, Inc. (CTA) is classified as a local firm.

b. Location of Office Performing Work

Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309



c. Describe Firm, Size, and Range of Activities

➤ **Landscaping Architectural Services**

CTA was incorporated in 1962 and has a large group of Professional Engineers, graduate Engineers, Surveyors, G.I.S. Specialists, Landscape Architects and Planners.

CTA has gained an invaluable skill set and extensive experience in providing quality professional services for an enormous diversity of projects for a variety of municipalities. These projects have ranged in size and complexity from small, single-task assignments to large, multi-scaled projects involving numerous sub-consultants and/or specialized services.

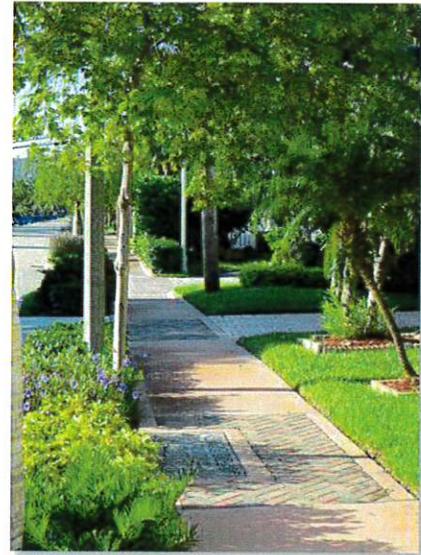
The Landscape Architecture Department at CTA was created in 1985 when its first Registered Landscape Architect joined the team. The Landscape Architecture Department was created in response to increased public and private concern for natural systems, environmental quality and community appearance. CTA has been actively engaged in Landscape Architecture ever since, resulting in hundreds of impressive landscape architectural projects in South Florida. Our Landscape Architects are readily available to provide services to conduct site planning for the initial conceptual planning stages of a project, as well as the landscape, hardscape, site amenity and irrigation plans.



CTA has designed many projects within the tri-county area, including parks, streetscape and median landscape and irrigation design. Our staff has overseen the construction of multiple exciting and innovative waterfront parks including a four-acre riverfront promenade park in Kentucky that consisted of large public plazas, elaborate fountains, a unique performance pavilion and one of the largest and most creatively themed fully ADA accessible playgrounds in the region. CTA oversaw the installation of a nature themed waterfront park in Sunrise that was designed to include created wetlands with boardwalk and pavilions, nature trails, themed play

- Bluesten Park
- Sawgrass Sanctuary Park
- Pine Island Road & NW 50th Street Athletic Complex
- Oak Hammock Park
- Oscar Wind Park
- Flamingo Park
- the Urban Art Park
- Jaco Pastorius Park
- Waterways Park

Our landscape architects create master plans, designs for public facilities such as libraries, community centers, city halls and other municipal facilities that promote the building architecture and emphasize the character of the surrounding neighborhood. We consider that a building is not an invasion of the landscape, but a vital extension of it. Where a building rests on the land, and how it rests on the land, sets the context for its evolving construction, development, and use.



➤ **Urban Design Planning Services**

Over the past several years, urban design in South Florida has gone through a drastic change. With the introduction of ‘modern urbanism’ the language of development has been changed forever. Suburban communities are now urban; mass transit is being taken seriously; pocket parks and urban oasis are becoming more of a common occurrence and ‘sustainability’ and ‘green buildings’ has entered into Code requirements from many cities and counties.

The CTA approach to Urban Design Plans builds on three key principles:

- Build on Your Strength
- Create Great Places
- Activate the Street

With every urban design plan, CTA will review these three key principles to determine how they can all be met. All three are incredibly important in an urban environment. By building on the strength that is already present in the City, site or area, by creating a great space that pays attention to the details and by activating the street which provides an undeniable energy, change will be achieved quicker and will be more successful.



In outlining an applicable approach, it is assumed that the task would be to develop general urban design plans for a specific area within the City. The final deliverable could possibly be a set of design guidelines for the redevelopment of an area.

- NW 21st Avenue, Broward County
- SW 41st Place, Davie
- Roadway improvements involving: North M Street, North K Street, North F Street, North J Street, 11th Avenue North, and 15th Avenue North, Lake Worth.

Additionally, we have just completed the design of intersection traffic calming improvements to the following intersections in 2015 for the City of North Miami:

- NW 123rd Street/NW Miami Court
- NW 123rd Street/NW 1st Court
- NW 139th Terrace/NW 5th Court

These roadways included utilities such as sanitary and water, and drainage improvements. In addition, we surveyed, designed, permitted and provided CEI services for hundreds of miles of reconstructed roadway in our infrastructure rehabilitation projects.



Stormwater/Storm Sewer/Drainage

CTA has prepared master plans, conceptual permits, and studies. We have designed, permitted, bid and managed the construction of thousands of acres of stormwater infrastructure improvements. CTA understands the importance of flood protection measures, as standing water promotes unhealthy conditions as well as inhibits essential services from accessing the area.

Within the past ten (10) years, CTA has prepared comprehensive stormwater management plans for the Cities of Aventura, Hallandale Beach, Sunrise, Miami Gardens, Greenacres, the Town of Davie, and Study Area #1 modification for Pompano Beach. In addition, we serve as the District Drainage Engineers for Tindall Hammock Irrigation and Soil Conservation District (THISCD), and the Central Broward Water Control District (CBWCD) providing planning, capital improvements costs, design and construction administration services which resolved flooding and environmental concerns for the Cities. CTA has performed major and minor stormwater basin studies and has implemented recommendations of those studies through design, permitting, & CEI of basin-wide improvements. Our stormwater master planning projects include computer modeling using Streamline Technologies ICPR Software as well as PCSWMM, the commercial version of US EPA SWMM5 Software. CTA has used the ICPR for the past twenty (20) years, and utilizes the latest update, V4. Additionally, we have used the program CASCADE on smaller projects.



CTA has not only designed, permitted, bid and constructed over a million feet of pipe, but we have provided accurate estimating of construction costs which is a critical aspect in appropriating proper funding for these projects. CTA has estimated, on average, construction costs to within 6% of the actual Bid Cost.

➤ **Surveying Services**

The CTA Surveying & GIS Department has six (6) Professional Surveyors and Mappers, four (4) Survey Technicians and eight (8) Field Crews. Providing Surveying services has been, and continues to be, an important portion of CTA's business since 1962.

CTA provided surveying services for the Town of Lake Park for the Northlake outfall into the SFWMD Canal, the City of Hollywood, surveying all of their tidal drainage structures, a hydrographic survey for Greenacres, and hydrographic surveys for Port Everglades, Broward County, the Central Broward Water Control District, and the Tindall Hammock Irrigation and Soil Conservation District



CTA has provided surveying services on a significant number of roadway projects including:

- Miramar Historic Area Complete Streets Phase II, Miramar
- NE 29th Place, Aventura
- NW 21st Avenue, Broward County
- State Road 7, Broward County
- Electronics Way, West Palm Beach
- North Riverside Drive, Pompano Beach
- 7th Street, West Palm Beach
- Filmore Street, Hollywood
- NE 34th Court, Oakland Park
- NE 38th Street Complete Streets, Oakland Park
- Pine Island Road (BCHCED)
- Miramar Parkway (BCHCED)
- Spangler Boulevard, Port Everglades
- Fleming Avenue, Greenacres
- NW 125th Street Improvements, North Miami
- Sunrise Boulevard (BCHCED)



Other roadway projects where CTA Key Personnel have provided surveying services includes: the NE 5th Avenue Streetscape and Roadway Reconstruction Project; the Floranada Road Traffic Calming Improvement Project; and North Miami Intersection Traffic Calming. Each of these

➤ **Construction Administration, Management & Inspection**

Over their time with CTA, various personnel have provided CEI services on a significant number of roadway and neighborhood improvements including: Davie Road Phase 1; NW 21st Avenue; SW 41st Place; Pine Island Road; Spangler Boulevard; McIntosh Road; Fleming Avenue; NW 125th Street Improvements; NE 29th Place; Sistrunk Boulevard Streetscape and Sunrise Boulevard. Many of the roadway projects CTA has been involved with included Local Agency Program coordination with FDOT during both design and construction services.



Other roadway projects where CTA Key Personnel have provided CEI services includes: the NE 14th Avenue Streetscape project; the NE 5th Avenue Streetscape and Roadway Reconstruction Project; the Floranada Road Traffic Calming Improvement Project; the 136th and 14th Street Roundabout Project; and the Hiatus and 26th Street Roundabout project. Each of these projects involved traffic calming elements, as well as sidewalks, drainage, pavement marking & signage, landscaping & irrigation, and ADA considerations.

In addition, CTA personnel have undertaken CEI services for roadway milling & re-surfacing projects such as: the 207th Street Milling & Resurfacing; Country Club Drive Milling & Resurfacing; NW 191st Street Milling & Resurfacing; NE 29th Court; NE 201st Terrace; NE 27th Court, and the Frontage Road along NE 203rd Street Milling & Resurfacing, the NE 188th Street, NE 185th Street; and NE 31st Avenue Milling & Resurfacing projects all in the City of Aventura, and 191st Street Milling & Resurfacing project in the City of Miami Gardens. We also generally include storm sewer & associated structures, curb & gutters, medians, swales, sidewalks, ADA improvements and pavement, and signage & pavement marking improvements.

These CTA team members have performed CEI services for hundreds of miles of roadway on neighborhood projects including: Miami Gardens Livable Neighborhood Improvements – Vista Verde; City of Oakland Park Garden Acres Neighborhood Improvements; South County Neighborhood Improvement Project, Central County Neighborhood Improvement Project; North Central County Neighborhood Improvement Project; and North County Neighborhood Improvement Project, NE and NW Quadrants.

The Sistrunk Boulevard Streetscape and Enhancement Project, completed in December of 2012, is another example of CTA's experience with CEI services on roadway projects. Don Shaver (Construction Manager) was involved in this project. CTA represented the City of Fort Lauderdale as the Resident Project Representative. While the design of this project was managed by the City's Community Redevelopment Agency (CRA), the construction portion was administered by the City of Fort Lauderdale's Public



improvements, including recreational facilities, active and passive facilities throughout the State for several municipalities including but not limited to the City of Deerfield Beach, Village of Wellington, Port St. Lucie, Palm Beach County, Parkland, the City of Fort Lauderdale, Miramar, Pompano Beach, City of Sunrise, Martin County, Miami-Dade County, Lake Mary, North Miami Beach, Daytona Beach, the Town of Davie, Miami Beach, FDOT, as well as Florida Atlantic University. EDA is staffed to provide electrical and instrumentation engineering services from inception through design, bid, and construction completion.

✓ **Traffic, MOT & Signal Design**

HBC Engineering Company has the expertise and resources to support a wide range of design / engineering services from concept through construction. We are structured to provide a quick, efficient response to the project needs of municipalities, governmental agencies, individuals, private developers, school districts and industries. Our services typically begin with the initial conceptual plan and finish with the project closeout. HBC Design / Engineering services include the following:



- Street and Highway Engineering & Design
- Traffic Control and Detour Plans
- Highway MOT
- Interchange Design
- Highway Lighting Design
- Design/Build Project
- Miscellaneous Structures Design
- Geographic Information Systems (GIS)
- Program Management
- Master Planning / Programming
- Cost Estimation
- Feasibility Studies
- Storm Water Management & Design
- Signing, Marking & Signalization, Site Analysis and Suitability
- Construction Specifications
- Construction Bidding and Award
- Construction Administration
- Facility Management Services
- Utility Coordination and Design

✓ **Sub-surface Utility Locates**

InfraMap Corp uses their technologies to provide accurate utility infrastructure information to enhance constructability and control costs for the client. They expect and intend that their services will provide a substantial net savings to the client over and above our fee. They are experts in mapping all types of utility infrastructure including buried utility systems, storm water and sanitary systems, tunnels, and foundations, as well as aerial and above ground systems. InfraMap also produces detailed dimensional drawings of the interior and exterior of underground vaults and structures, and performs air vacuum excavation test pits. Projects are performed with an eye on identifying possible conflicts between existing utilities and proposed construction. InfraMap is sensitive to the fact that utility records may be misleading and incomplete; therefore, investigations are performed on every project with the goal of detecting undocumented utilities. Their professional engineers and surveyors are involved in the scoping, performance and final review of each project, ensuring the appropriate data is provided.



SECTION 5 - PROFILE OF CONSULTANT

RICK SCOTT, GOVERNOR JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

LICENSE NUMBER	
	LA6667250

The LANDSCAPE ARCHITECT
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2019

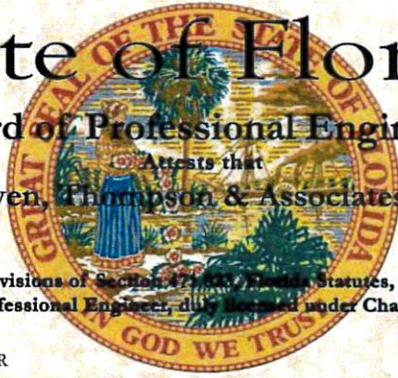
ROTHENBERGER, CALEB J
333 NW 47TH STREET
OAKLAND PARK FL 33309




ISSUED: 11/16/2017 DISPLAY AS REQUIRED BY LAW SEQ # L1711160001721

State of Florida
Board of Professional Engineers

Attests that
Craven, Thompson & Associates, Inc.

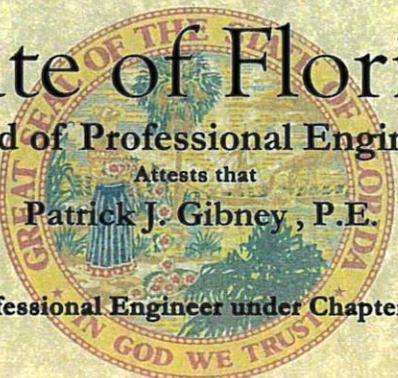



Is authorized under the provisions of Section 471.02, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2019 CA Lic. No: 271
Audit No: 228201900274 R

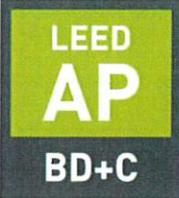
State of Florida
Board of Professional Engineers

Attests that
Patrick J. Gibney, P.E.




Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019 P.E. Lic. No: 49428
Audit No: 228201902547 R



GREEN BUSINESS CERTIFICATION MAY CERTIFIES THAT

Douglas Schultz

HAS ATTAINED THE DESIGNATION OF

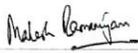
LEED AP[®] Building Design + Construction

by demonstrating the knowledge and understanding of green building practices and principles needed to support the use of the LEED green building program.

10445923-AP-BD+C

11 AUG 2011

09 AUG 2019



MAHESH RAVANUJAN
PRESIDENT & CEO, U.S. GREEN BUILDING COUNCIL
PRESIDENT & CEO, GREEN BUSINESS CERTIFICATION, INC.



GREEN BUILDING CERTIFICATION INSTITUTE

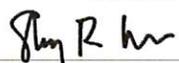
HEREBY CERTIFIES THAT

Caleb Rothenberger

HAS ACHIEVED THE DESIGNATION OF

LEED[®] ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED[®]) GREEN BUILDING RATING SYSTEM[™]



Chairman

June 14, 2009

Date Issued



Vice President, President



*Must be in LEED Practice, Green - LEED AP Accredited Professionals with a regular Board seat.



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

MIKE DEW
SECRETARY

June 29, 2018

Thomas McDonald, President
CRAVEN, THOMPSON & ASSOCIATES, INC.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Dear Mr. McDonald:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following types of work:

- Group 3 - Highway Design - Roadway
 - 3.1 - Minor Highway Design
 - 3.2 - Major Highway Design
- Group 8 - Survey and Mapping
 - 8.1 - Control Surveying
 - 8.2 - Design, Right of Way & Construction Surveying
- Group 10 - Construction Engineering Inspection
 - 10.1 - Roadway Construction Engineering Inspection
- Group 15 - Landscape Architect

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2019 for contracting purposes.

Approved Rates

Home/ Branch Overhead	Facilities Capital Cost of Money	Premium Overtime	Reimburse Actual Expenses	Home Direct Expense
150.71%	0.002%	Reimbursed	No	0.00%

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,

Carliayn Kell
Professional Services
Qualification Administrator

www.fdot.gov

State of Florida Department of State

I certify from the records of this office that HBC ENGINEERING COMPANY is a corporation organized under the laws of the State of Florida, filed on June 15, 2006.

The document number of this corporation is P06000082280.

I further certify that said corporation has paid all fees due this office through December 31, 2018, that its most recent annual report/uniform business report was filed on February 1, 2018, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the First day of February, 2018*



Ken Detjmer
Secretary of State

Tracking Number: CC7283703122

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

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

State of Florida Department of State

I certify from the records of this office that ELECTRICAL DESIGN ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on October 8, 1998.

The document number of this corporation is P98000086834.

I further certify that said corporation has paid all fees due this office through December 31, 2018, that its most recent annual report/uniform business report was filed on January 12, 2018, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twelfth day of January, 2018*



Ken Detjmer
Secretary of State

Tracking Number: CC1791175584

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

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

State of Florida Department of State

I certify from the records of this office that ABSOLUTE CIVIL ENGINEERING SOLUTIONS, LLC is a limited liability company organized under the laws of the State of Florida, filed on May 6, 2011, effective May 1, 2011.

The document number of this limited liability company is L11000054398.

I further certify that said limited liability company has paid all fees due this office through December 31, 2018, that its most recent annual report was filed on February 15, 2018, and that its status is active.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Fifteenth day of February,
2018*



Ken Detjen
Secretary of State

Tracking Number: CC6719747517

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

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

CORPORATE CHARTER / CERTIFICATIONS

Subconsultant – Masuen Consulting

<u>2018 FLORIDA LIMITED LIABILITY COMPANY ANNUAL REPORT</u>		FILED
DOCUMENT# L04000000183		Jan 18, 2018
Entity Name: MASUEN CONSULTING, LLC		Secretary of State
Current Principal Place of Business:		CC9603635675
32801 HWY 441 N		
#293		
OKEECHOBEE, FL 34972		
Current Mailing Address:		
642 YATES RD		
NEWPORT, WA 99156 US		
FEI Number: 20-0561636	Certificate of Status Desired: Yes	
Name and Address of Current Registered Agent:		
WALKER, MITCHEL		
32801 HWY 441 N		
#293		
OKEECHOBEE, FL 34972 US		
<small>The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.</small>		
SIGNATURE: MITCHEL WALKER	01/18/2018	
Electronic Signature of Registered Agent	Date	
Authorized Person(s) Detail :		
Title MGRM	Title MGRM	
Name WALKER, MITCHEL A	Name MASUEN, MICHELE	
Address 642 YATES ROAD	Address 642 YATES ROAD	
City-State-Zip: NEWPORT WA 99156	City-State-Zip: NEWPORT WA 99156	
<small>I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath, that I am a managing member or manager of the limited liability company or the receiver or trustee empowered to execute this report as required by Chapter 605, Florida Statutes, and that my name appears above, or on an attachment with all other like empowered.</small>		
SIGNATURE: MITCHEL WALKER	PRESIDENT	01/18/2018
Electronic Signature of Signing Authorized Person(s) Detail		Date

- d. Provide a list and description of similar municipal and CRA and other engagements satisfactorily performed within the past four (4) years. For each engagement listed, include the name and telephone number of a representative for whom the engagement was undertaken who can verify satisfactory performance.

ENGAGEMENT NO. 1

1. **Organization:** City of Hallandale Beach
2. **Contact Name:** Mr. Manga Ebbe, Project Manager
3. **Phone:** (954) 457-3043
4. **Email:** mebbe@hallandalebeachfl.gov
5. **Design/Completion:** 2015 - 2018
6. **Project & Scope:**

NE 14th Avenue Streetscape Improvements, Hallandale Beach, Florida

The project area is along NE 14th Avenue between Hallandale Beach Boulevard and Atlantic Shores Boulevard. The project corridor is approximately 3,400 linear feet. The project includes: Mill and overlay entire roadway (including pavement markings); on east side of NE 14th Avenue, mill and overlay off-street parking (including pavement markings) and provide new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14th Avenue; landscape screening along north, south, and west sides of the two (2) storm water pump stations. Please note: Landscaping along the west side of the enclosure may be limited due to the close proximity of the screen fence to the existing sidewalk; PaveDrain concrete block access drives on each side of the two (2) storm water pump stations; mid-block crosswalks; and resting areas (benches, trash cans, etc.).

CTA is providing surveying, landscape architectural, and civil engineering services.



ENGAGEMENT NO. 3

1. **Organization:** City of Oakland Park
2. **Contact Name:** Ms. Jennifer Frastai, ICMA-CM, Director of Eng. & Community Dev.
3. **Phone:** (954) 630-4477
4. **Email:** Jenniferf@oaklandparkfl.gov
5. **Design/Complete:** 2011 - 2015
6. **Project & Scope:**

NE 38th Street Complete Streets Project Oakland Park, Florida

The consulting services for the 0.90 linear feet of complete streets roadway (recognized by the MPO) included landscape, hardscape, and streetscape enhancement, a complete storm sewer system, a roundabout to replace an existing traffic signal, traffic calming devices, utility coordination and relocation, and full roadway reconstruction. The main Project objective was to discourage truck traffic and redirect cut-through traffic from NE 38th Street to alternate routes between Andrews Avenue and NE 11th Avenue. This project required permit approvals from Broward County Environmental Protection Department (EPD), and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilized FDOT LAP funding for construction.

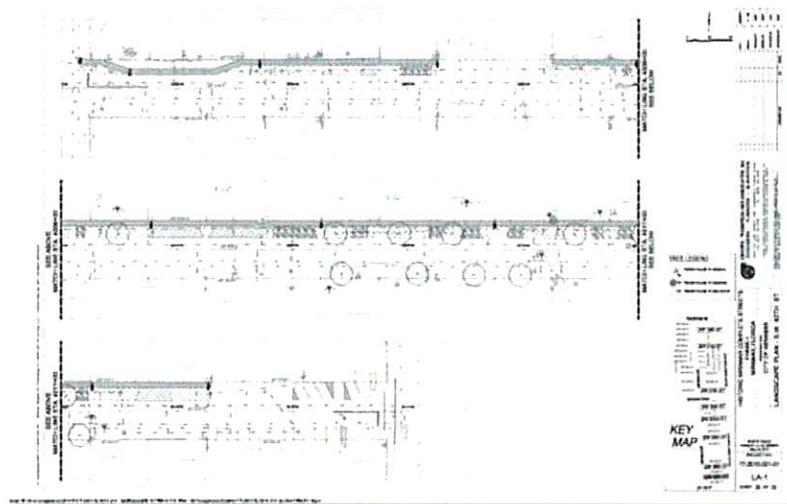


ENGAGEMENT NO. 5

1. **Organization:** City of Miramar
2. **Contact Name:** Mr. Salvador Zuniga, P.E., Assistant City Engineer
3. **Phone:** (954) 602-3323
4. **Email:** sezuniga@miramarfl.gov
5. **Design/Complete:** 2016 - 2018
6. **Project & Scope:**

Miramar Historical Area Complete Streets Project - Phase II, Miramar, Florida

CTA was selected by the City of Miramar to survey, provide landscape architecture, civil engineering, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project includes surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62nd Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The improvements include: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City received a grant through the Broward Redevelopment Program for the improvements.



ENGAGEMENT NO. 7

1. **Organization:** City of Oakland Park
2. **Contact Name:** Ms. Jennifer Frastai, ICMA-CM, Director of Eng. & Community Dev.
3. **Phone:** (954) 630-4477
4. **Email:** Jenniferf@oaklandparkfl.gov
5. **Design/Complete:** 2010-2015
6. **Project & Scope:**

NE 34th Court Complete Streets Project (NE 2nd Avenue to Dixie Highway),Oakland Park, Florida

The 0.70-mile complete streets roadway project (recognized by the MPO) included streetscape and engineering services for full roadway reconstruction design, stormwater management ICPR modeling and design, utility coordination and relocation, landscape and streetscape enhancement, and all associated jurisdictional permitting. This project required permit approvals from Broward County Environmental Protection Department (EPD), Broward County Health Department, and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilized FDOT LAP funding for construction. Craven Thompson and Associates assisted the City of Oakland Park with the funding procurement process



ENGAGEMENT NO. 9

1. **Organization:** Town of Davie
2. **Contact Name:** Mr. Phil Holste, Assistant Town Administrator and Interim CRA Director
3. **Phone:** (954) 797-11401
4. **Email:** phillip_holste@davie-fl.gov
5. **Design/Completion:** 2015 - 2016
6. **Project & Scope:**

Davie Road Phase 1 - CEI Services, Davie, Florida

This project was for the construction engineering inspection services to re-construct a public roadway known as Davie Road Phase 1 within public right-of-way owned by Broward County, extending from the State Road 84 Right-of-Way to Nova Drive. The length of the reconstruction was approximately 2,640 linear feet. The primary intent was for CTA to provide construction engineering inspection services for the re-construction of the roadway. The construction project consisted of pavement, base and sub-grade reconstruction, curb & gutter construction, bike lane construction, sidewalk construction, median construction, driveway reconstruction within the R.O.W., drainage system construction, landscaping & irrigation construction, pavement marking & signage, traffic signal modification at Reese Road and at Nova Drive, street lighting, and coordination with utility companies.

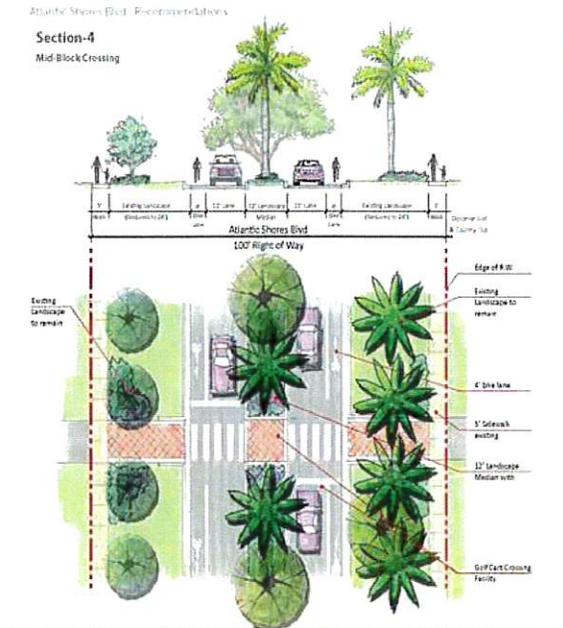


ENGAGEMENT NO. 11

1. **Organization:** City of Hallandale Beach
2. **Contact Name:** Mr. Manga Ebbe, Project Manager
3. **Phone:** (954) 457-3043
4. **Email:** mebbe@hallandalebeachfl.gov
5. **Design/Completion:** 2016 - 2017
6. **Project & Scope:**

Hallandale Beach BODR - Master Plan - Landscape/ Streetscape

The City of Hallandale Beach hired CTA to produce a city-wide master plan that functions as a comprehensive document that assesses various infrastructure improvements, both underground and surface, and utilizes the outcome as a basis for preparing construction documents and acquiring funding. This includes City-Wide Master Planning for the 2,800 acres including sidewalk, landscaping, hardscape, median enhancement, complete streets, bike lanes, local roads, sidewalk, and lighting. CTA provided recommendations for future streetscape corridors, bike lane and greenway planning, and schematic landscape for the City. A full storm water master drainage plan is being performed by CTA in conjunction with this project. CTA developed a Capital Improvement Plan and schedule.





Craven Thompson & Associates, Inc.
Engineers • Planners • Surveyors • Landscape Architects

Joseph D. Handley, R.L.A.

PROJECT ROLE | Principal-In-Charge/Project Manager

EDUCATION	B.S. in Ornamental Horticulture Clemson University 1976 - 1980 Attended Masters in Landscape Architecture Program University of Georgia and Louisiana State University 1981 - 1984
REGISTRATIONS	Professional Registered Landscape Architect - Florida No. 1368 (1990)
YEARS OF EXPERIENCE	30 Years w/CTA - 35 Years Total
SUMMARY OF EXPERIENCE	

Mr. Handley has been involved in a broad range of land planning projects in South Florida for the past thirty three years. Having worked in both the public and private sectors, Mr. Handley is widely familiar with client needs and project requirements and processes. He is responsible for overseeing the preparation and processing of plats, site, landscape, hardscape, streetscape and irrigation plans; utilizing his knowledge of local, state and federal regulations involved in land development. He has direct client contact to obtain project input and approvals, responsible for completion of projects on time and within budget.



WORK HISTORY	Craven Thompson & Associates, Inc. , Fort Lauderdale, Florida September 1993 - Present Vice President, Planning and Landscape Architecture February 1988 - September 1993 Senior Land Planner
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RELEVANT PROJECT EXPERIENCE:

NE 34th Court Complete Streets Project, Oakland Park, Florida - Principal Landscape Architect

The landscape, streetscape and engineering services include full roadway reconstruction design, storm water management ICPR modeling and design, utility coordination and relocation, landscape and streetscape enhancement, and all associated jurisdictional permitting. This project required permit approvals from Broward County Environmental Protection Department (EPD), Broward County Health Department, and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilized FDOT LAP funding for construction. Craven Thompson and Associates assisted the City of Oakland Park with the funding procurement.

NE 38th Street Complete Streets Project, Oakland Park, Florida | Project Manager - The consulting services included landscape and streetscape enhancement, a complete storm sewer system, a roundabout to replace an existing traffic signal, traffic calming devices, utility coordination and relocation, and full roadway reconstruction. The main project objective was to discourage truck traffic and redirect cut-through traffic from NE 38th Street to alternate routes between Andrews Avenue and NE 11th Avenue. This project required permit approvals from Broward County Environmental Protection Department (EPD), and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilized FDOT LAP funding for construction.

Sunrise Bicycle/Pedestrian, Greenways and Trails Master Plan | Sunrise, Florida | Principal Landscape Architect. Craven Thompson & Associates, Inc. along with Alta Planning + Design was hired by the City of Sunrise to prepare a Bicycle / Pedestrian Greenways & Trails Master Plan. The Plan defines a system of sidewalks, bike lanes, paths, greenways and trails within the City of Sunrise that provides integrated and continuous corridors for non-motorized transportation and recreation throughout the city in a manner that is sensitive to the needs of various user groups, the natural and built environment, the management and maintenance, and potential funding capabilities of local government.



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Engineers • Planners • Surveyors • Landscape Architects

Douglas Schultz, R.L.A., LEED AP

PROJECT ROLE | Lead Landscape Architect

EDUCATION	Bachelors of Landscape Architecture University of Kentucky 2002
REGISTRATIONS	Professional Registered Landscape Architect - Florida No. 6666937 (2006) LEED Accredited Professional, United States Green Building Council, 2009
YEARS OF EXPERIENCE	7 Years w/CTA – 16 Years Total
SUMMARY OF EXPERIENCE	

Mr. Schultz has been actively involved in the planning and design for a variety of projects ranging from large scale community planning to detailed resort design. He is LEED Accredited and is a licensed Landscape Architect in the State of Florida. He is responsible for over-seeing projects from concept to detailed design and through construction. Mr. Schultz has acted as the primary project manager on several public and private sector construction projects. He is very knowledgeable in the design process and has an extensive construction background understanding.



WORK HISTORY	Craven Thompson & Associates, Inc. , Fort Lauderdale, Florida July 2011 to Present Landscape Architect EDSA , Fort Lauderdale, Florida June 2002 to July 2011 Landscape Architect
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RELEVANT PROJECT EXPERIENCE:

NE 34th Court Complete Streets Project | Oakland Park, Florida | Project Manager

The streetscape and engineering services include full roadway reconstruction design, landscape and streetscape enhancement, storm water management ICPR modeling and design, utility coordination and relocation, and all associated jurisdictional permitting. This project required permit approvals from Broward County Environmental Protection Department (EPD), Broward County Health Department, and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilized FDOT LAP funding for construction. Craven Thompson and Associates assisted the City of Oakland Park with the funding procurement.

Sunrise Bicycle/Pedestrian, Greenways and Trails Master Plan | Sunrise, Florida | Project Manager

Craven Thompson & Associates, Inc. along with Alta Planning + Design was hired by the City of Sunrise to prepare a Bicycle / Pedestrian Greenways & Trails Master Plan. The Plan defines a system of sidewalks, bike lanes, paths, greenways and trails within the City of Sunrise that provides integrated and continuous corridors for non-motorized transportation and recreation throughout the city in a manner that is sensitive to the needs of various user groups, the natural and built environment, the management and maintenance, and potential funding capabilities of local government.

Oakland Park Boulevard Median Enhancements | Oakland Park, Florida | Project Manager

Mr. Schultz was retained by the City of Oakland Park to enhance the aesthetic appeal of Oakland Park Boulevard (State Road 816) from NW 31st Avenue to I-95 (within the City limits) through landscaping improvements in the median of the multi-lane state highway. These improvements require review and approval from both the City and the Florida Department of Transportation (FDOT).



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Scott W. Peavler, R.L.A.

PROJECT ROLE | Landscape Architect

EDUCATION	Bachelors of Landscape Architecture Kansas State University 2005
REGISTRATIONS	Professional Registered Landscape Architect - Florida No. 6666976 (2008)
YEARS OF EXPERIENCE	9 Years w/CTA - 13 Years Total
SUMMARY OF EXPERIENCE	

Mr. Peavler's responsibilities include site planning, landscape and hardscape design, tree removal and relocation plans in AutoCAD and presentation graphics, utilizing knowledge of local and state regulations involved in land development on a range of projects. Coordinating with Clients, City officials, and other consultants to obtain project input and approvals. Has direct client contact. Preparation of color renderings of landscape plans for presentation.



WORK HISTORY	Craven Thompson & Associates, Inc. , Fort Lauderdale, Florida June 2009 to Present Landscape Architect
	EDSA , Fort Lauderdale, Florida June 2005 to June 2009 Landscape Architect

RELEVANT PROJECT EXPERIENCE:

NE 38th Street Complete Streets Project, Oakland Park, Florida – Landscape Architect

The consulting services included landscape and streetscape enhancement, a complete storm sewer system, a roundabout to replace an existing traffic signal, traffic calming devices, utility coordination and relocation, and full roadway reconstruction. The main project objective was to discourage truck traffic and redirect cut-through traffic from NE 38th Street to alternate routes between Andrews Avenue and NE 11th Avenue. This project required permit approvals from Broward County Environmental Protection Department (EPD), and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilizes FDOT LAP funding for construction.

Miramar Historical Area Complete Streets Project – Phase II, Miramar, Florida – Lead Landscape Architect.

Craven Thompson & Associates, Inc. was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project includes surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62nd Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The improvements include: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City received a grant through the Broward Redevelopment Program for the improvements.

NE 5th Avenue Roadway & Streetscape Improvements - Oakland Park, Florida – Project Manager.

This 0.6 miles roadway project consisted of reconstruction of a two (2) lane roadway, paver intersection and crosswalks, addition of parallel parking stalls, 3,000 LF of water main replacement, 2,500 LF of storm drain installation, sidewalks, landscaping and irrigation, lighting and franchise utility service placement underground.



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Caleb Rothenberger, R.L.A. LEED AP

PROJECT ROLE | Landscape Architect

EDUCATION	Bachelors of Landscape Architecture, Ball State University, College of Architecture and Planning, Muncie, Indiana 2007 Minor in Digital Publishing and Graphic Design
REGISTRATIONS	Florida Registration No. 6667250 (2015) LEED Accredited Professional, United States Greenbuild Council, 2009
AREAS OF EXPERTISE	Landscape Architecture
YEARS OF EXPERIENCE	4 Years w/CTA – 10 Years Total

SUMMARY OF EXPERIENCE

Mr. Rothenberger's experience includes managing multiple projects from conceptual through detailed design and final construction. He has worked as part of a team in the concept and design development stages and acted as project manager through approvals and construction phases. He is responsible for day-to-day client contact, attending team meetings, and coordinating team work efforts. His knowledge in overall master planning and coordination of the approval process in addition to his expertise in understanding and working with regulatory requirements enables him to provide innovative and workable design solutions.



WORK HISTORY

Craven Thompson & Associates, Inc., Fort Lauderdale, Florida
March 2014 to Present | Project Landscape Architect

EDSA, Fort Lauderdale, Florida
January 2008 to March 2014 | Project Landscape Architect

RELEVANT PROJECT EXPERIENCE:

Miramar Historical Area Complete Streets Project – Phase II | Miramar, Florida | Landscape Architect
Craven Thompson & Associates, Inc. was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project includes surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62nd Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The improvements include: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City received a grant through the Broward Redevelopment Program for the improvements.

Hallandale Beach BODR – Master Plan – Landscape / Streetscape | Hallandale Beach, Florida | Landscape Architect. The City of Hallandale Beach hired Craven Thompson & Associates, Inc. (CTA) to produce a city-wide master plan that functions as a comprehensive document that assesses various infrastructure improvements, both underground and surface, and utilizes the outcome as a basis for preparing construction documents and acquiring funding. This includes City-Wide Master Planning for the 2,800 acres including sidewalk, landscaping, hardscape, median enhancement, complete streets, bike lanes, local roads, sidewalk, and lighting. CTA provided recommendations for future streetscape corridors, bike lane and greenway planning, and schematic landscape for the City. A full storm water master drainage plan is being performed by CTA in conjunction with this project. CTA developed a Capital Improvement Plan and schedule.

Sunrise Bicycle/Pedestrian, Greenways and Trails Master Plan | Sunrise, Florida | Landscape Designer. Craven Thompson & Associates, Inc. along with Alta Planning + Design was hired by the City of Sunrise to prepare a Bicycle / Pedestrian Greenways & Trails Master Plan. The Plan defines a system of sidewalks, bike lanes, paths, greenways and trails within the City of Sunrise that provides integrated and



Craven Thompson & Associates, Inc.
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Patrick J. Gibney, P.E.

PROJECT ROLE | Lead Civil Engineer

EDUCATION	Bachelor of Science - Civil Engineering Rutgers, The State University 1987
REGISTRATIONS	Professional Civil Engineer - Florida No. 49428 (1995)
CERTIFICATIONS	FDOT Pre-Qualified Roadway Construction Engineering Inspection
AREAS OF EXPERTISE	Civil Engineering/Transportation, Stormwater, & Utilities
YEARS OF EXPERIENCE	25 Years w/CTA - 31 Years Total
SUMMARY OF EXPERIENCE	

Mr. Gibney has over twenty-eight years of experience providing project management, design and construction management services for public and private civil engineering projects. These services includes roadway, master planning improvements for over 6,000 acres of existing neighborhoods in Broward County, and storm water management systems, preparation of contract documents and specifications and construction inspections.



WORK HISTORY	Craven Thompson & Associates, Inc. , Fort Lauderdale, Florida January 2014 to Present Vice President, Engineering April 1993 to January 2014 Senior Supervising Engineer
	NBS/Lowry & Associates, Inc. , Temecula, California 1989 to 1993 Engineer
	MacDel & Associates, Inc. , Secaucus, New Jersey 1987 to 1989 Engineer

RELEVANT PROJECT EXPERIENCE:

NE 34th Court Complete Streets Project, Oakland Park, Florida - Project Manager

The streetscape and engineering services include full roadway reconstruction design, storm water management ICPR modeling and design, utility coordination and relocation, landscape and streetscape enhancement, and all associated jurisdictional permitting. This project required permit approvals from Broward County Environmental Protection Department (EPD), Broward County Health Department, and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilized FDOT LAP funding for construction. Craven Thompson and Associates assisted the City of Oakland Park with the funding procurement.

NE 38th Street Complete Streets Project, Oakland Park, Florida – Project Manager

The consulting services included landscape and streetscape enhancement, a complete storm sewer system, a roundabout to replace an existing traffic signal, traffic calming devices, utility coordination and relocation, and full roadway reconstruction. The main Project objective was to discourage truck traffic and redirect cut-through traffic from NE 38th Street to alternate routes between Andrews Avenue and NE 11th Avenue. This project required permit approvals from Broward County Environmental Protection Department (EPD), and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilized FDOT LAP funding for construction.

Miramar Historical Area Complete Streets Project – Phase II, Miramar, Florida – Project Director

Craven Thompson & Associates, Inc. was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project includes surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62nd Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The



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Matthew Cigale, P.E.

PROJECT ROLE | Civil Engineer

EDUCATION	Bachelor of Science in Civil Engineering Clarkson University Potsdam, New York 1996
REGISTRATIONS	Professional Engineer - Florida No. 74584 2012
AREAS OF EXPERTISE	Civil Engineering
YEARS OF EXPERIENCE	19 Years w/CTA - 21 Years Totals
SUMMARY OF EXPERIENCE	

Mr. Cigale's extensive knowledge includes site plan layout, roadway design, water distribution system design, wastewater collection & transmission system design, storm water management design, planning and calculations, project management, cost estimation, construction permitting, and construction management.



WORK HISTORY	Craven Thompson & Associates, Inc. , Fort Lauderdale, Florida November 1999 to Present Civil Engineer
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RELEVANT EXPERIENCE:

Spangler Boulevard | Port Everglades, Florida | Civil Engineer

Mr. Cigale assisted with design, permitting, and bidding on the Spangler Boulevard project.

McIntosh Road | Port Everglades, Florida | Civil Engineer

Mr. Cigale assisted with design modifications, permit modifications, and construction engineering services on the Spangler Boulevard project.

LW 2020 Mater Plan Year 1 Improvements | City of Lake Worth, Florida | Project Manager

Project includes design, permitting, Year 1 of the Lake Worth 2020 Master Plan. The project includes the rehabilitation of right-of-way infrastructure including roads, alleys, curb, sidewalk, hardscape, drainage, and potable water. The project includes over 13,000 linear feet of roadway and storm sewer along with in excess of 6,000 linear feet of water main.

North County Neighborhood Improvements Project, NE Quadrant, Broward County | Broward County

Project Engineer - Assisted in design of roadways, right-of-way improvements (ADA, sidewalk, swales, etc.) sanitary sewer collection system consisting of 69,550 linear feet - 8" gravity main, 807 linear feet - 10" gravity main, 129 linear feet - 12" gravity main, and 144 linear feet - 16" gravity main. The sanitary force main system consisted of 540 linear feet - 8" main, and 1,540 linear feet 12" main. The water distribution system additions included 35,626 linear feet - 6" main, 10,161 linear feet - 8" main, 841 linear feet - 12" main, 1,306 linear feet - 20" main, and 1,023 linear feet - 24" main.

6th Avenue South Roadway & Streetscape Improvements | City of Oakland Park | Project Engineer

The project limits are 6th Avenue South – Federal Highway to Dixie Highway. The scope of work includes mill existing pavement 1" +/- and reconstitute existing Type F curb, selective removal/replacement of sidewalk and curbing, striping, ADA ramps, and traffic calming features that will add aesthetic value.

Garden Acres | City of Oakland Park | Project Engineer



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Douglas R. Taylor, P.E.

PROJECT ROLE | Civil Engineer

EDUCATION	Bachelor of Science - Civil Engineering University of Illinois 1984
REGISTRATIONS	Professional Civil Engineer - Florida No. 50569 (1996)
CERTIFICATIONS	FEMA ICS-100 Certification, FEMA ICS-200 Certification TS EM5 Intermediate ICS (G300) Certification, FEMA G400 Intermediate FEMA ICS-700 Certification, FEMA ICS-800 Certification
AREAS OF EXPERTISE	Civil Engineering
YEARS OF EXPERIENCE	7 Years w/CTA 34 Years Total
SUMMARY OF EXPERIENCE	

Mr. Taylor has been responsible for a multitude of municipal engineering and development projects throughout Florida. This includes project management, master design responsibility and oversight for a variety of projects. Mr. Taylor has 33 years of experience in civil engineering.



WORK HISTORY	Craven Thompson & Associates, Inc., Fort Lauderdale, Florida March 2013 to Present 1996 to 1998 Director of Municipal Services, Business Development
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RELEVANT PROJECT EXPERIENCE:

Miramar Historical Area Complete Streets Project – Phase II, Miramar, Florida, Project Manager

Craven Thompson & Associates, Inc. was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project includes surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62nd Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The improvements include: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City received a grant through the Broward Redevelopment Program for the improvements.

Kimberly Boulevard Streetscape Improvements, North Lauderdale, Florida –Project Manager

Project Manager for the Design and permitting of 1.2 miles of roadway, bicycle lane, median enhancements, a roundabout, landscaping, hardscape and lane reduction for an existing four-lane roadway subject to speeding and traffic accidents between autos, pedestrians, and bicyclists, CTA is providing survey, civil engineering, landscape architecture and construction administration and inspection.

NE 14th Avenue Streetscape Improvements, Hallandale Beach, Florida –Civil Engineer

The project area is along NE 14th Avenue, between Hallandale Beach Boulevard and Atlantic Shores Boulevard. The project corridor is approximately 3,400 linear feet. The project includes: Mill and overlay entire roadway (including pavement markings); on east side of NE 14th Avenue, mill and overlay off-street parking (including pavement markings) and provide new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14th Avenue; landscape screening along north, south, and west sides.



College Avenue Improvements Phase I, Davie, Florida – Project Manager

Design and permitting of .60 miles of improvements for the Town of Davie including taking a two lane rural section with poor drainage to a four lane urban section with bike lanes, curbing, median, sidewalk, a new drainage system, lighting, landscaping, and irrigation. Permitted the project through Central Broward Water Control District (CBWCD), South Florida Water Management District (SFWMD), and Broward County Highway Construction and Engineering Division. Developed pavement marking and signage plans for the project.

Manatee Isles Drive Roadway Project, Weston, Florida - Project Manager

Designed, permitted and oversaw construction of this project for the City of Weston. Re-designed rural section roadway to widen lanes and provide drainage improvements on Manatee Isles Drive between SW 196th Avenue and South Post Road. The project also included milling and resurfacing, median work, installation of curb and gutter, signing and marking upgrades, and a Maintenance of Traffic plan, in addition to proposed electrical, landscape and irrigation work.

NW 38th Street, Oakland Park, Florida - Project Manager

Design and permitting for the complete reconstruction of a quarter mile of existing heavily traveled two lane road with failing asphalt and base and poor drainage. The project was permitted through Broward County and the South Florida Water Management District.

NE 12th Avenue, Oakland Park, Florida - Project Manager

Design and permitting for 0.50 miles of roadway in the Oakland Park Downtown CRA area. The roadway previously had very poorly defined lanes, parking and drainage. The re-design clearly delineated the lanes, placed "bulb outs", constructed parking, greatly improved drainage and pavement marking and signage and added significant pedestrian improvements.



PROJECT ROLE | Lead Surveyor

NE 38th Street Complete Streets Project, Oakland Park, Florida – Lead Surveyor

The consulting services included surveying, landscape and streetscape enhancement, a complete storm sewer system, a roundabout to replace an existing traffic signal, traffic calming devices, utility coordination and relocation, and full roadway reconstruction. The main project objective was to discourage truck traffic and redirect cut-through traffic from NE 38th Street to alternate routes between Andrews Avenue and NE 11th Avenue. This project required permit approvals from Broward County Environmental Protection Department (EPD), and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilizes FDOT LAP funding for construction.

Miramar Historical Area Complete Streets Project – Phase II, Miramar, Florida, Principal Surveyor.

Craven Thompson & Associates, Inc. was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project includes surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62nd Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The improvements include: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City received a grant through the Broward Redevelopment Program for the improvements.

NE 14th Avenue Streetscape Improvements, Hallandale Beach, Florida – Principal Surveyor

The project area is along NE 14th Avenue, between Hallandale Beach Boulevard and Atlantic Shores Boulevard. The project corridor is approximately 3,400 linear feet. The project includes: Mill and overlay entire roadway (including pavement markings); on east side of NE 14th Avenue, mill and overlay off-street parking (including pavement markings) and provide new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14th Avenue; landscape screening along north, south, and west sides

NW 21st Avenue Broward County Right of Way - Oakland Park, Florida – Lead Surveyor

This 1.2 mile roadway project consisted of widening the existing three (3) lane roadway (north-south and bi-directional turn lane) to a five (5) lane roadway (2 north-south travel lanes and a bi-directional turn lane). The Project included a 72" Diameter regional storm drain system that will provide flood protection to approximately 500 acres of existing developments. The 72" storm drain was jacked under the CSX Railroad Tracks and a new outfall was constructed in the C-13 Canal. The work included approximately 5,000 LF of water main and force main installation, curb and gutter, landscaping and irrigation, lighting and signalization.

NE 5th Avenue Roadway & Streetscape Improvements - Oakland Park, Florida – Principal Surveyor.

This 0.6-mile roadway project consisted of reconstruction of a two (2) lane roadway, paver intersection and crosswalks, addition of parallel parking stalls, 3,000 LF of water main replacement, 2,500 LF of storm drain installation, sidewalks, landscaping and irrigation, lighting and franchise utility service placement underground.

3D Laser Scanning portion of Interstate 95 Topographic Design Project – Principal Surveyor and Technical Director of 3D Laser Scan Survey of a portion of Interstate 95 for Broward County Engineering to get topographic elevations across 6 lanes of highway to centerline median wall for design of temporary roadway for construction traffic to offload storm drainage pipes.



NE 14th Avenue Streetscape Improvements, Hallandale Beach, Florida

Project Surveyor - The project area is along NE 14th Avenue, between Hallandale Beach Boulevard and Atlantic Shores Boulevard. The project corridor is approximately 3,400 linear feet. The project includes: Mill and overlay entire roadway (including pavement markings); on east side of NE 14th Avenue, mill and overlay off-street parking (including pavement markings) and provide new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14th Avenue; landscape screening along north, south, and west sides.

Filmore Street Topographic Survey, Hollywood, Florida

Project Surveyor - Mr. Messina prepared a topographic (as-built) survey of Filmore Street, between N. 31st Avenue and N. 32nd Avenue in the City of Hollywood, Florida.

Topographic Survey Intersection of Las Olas Boulevard & SE 3rd Avenue, Fort Lauderdale, Florida

Project Surveyor - The intersection survey prepared by Mr. Messina includes all of the aboveground visible improvements within the survey limits. The topographic survey includes the recovery of enough boundary and right-of-way corners, to tie down the aboveground visible improvements (i.e., sidewalks, ADA ramps, curbs, structures, pavement, trees, slabs, and visible utility features).

City of Miami Gardens Livable Neighborhoods Improvements Project, Miami Gardens, Florida

Project Surveyor - Project Manager responsible for the preparation of a Basis of Design Review for four (4) communities that included streetscape, storm water modeling with ICPR, new storm sewer system and storm water quality treatment, street lighting and landscaping improvements to select roadway corridors along with comprehensive storm water management systems for each neighborhood.

Floranada Road Traffic Calming Improvements, Oakland Park, Florida

Project Surveyor - This project involved landscape architecture, professional engineering services for the design and permitting of traffic calming and other roadway improvements. The City of Oakland Park was seeking to implement traffic calming measures to enhance the safety of pedestrians and automobiles on Floranada Road between Dixie Highway and Federal Highway. Improvements surveyed, designed and permitted by Craven Thompson & Associates, Inc. included traffic roundabouts at the roadways intersections with NE 13th Avenue and NE 16th Avenue. Two traffic chokers were installed at NE 15th Avenue and at NE 15th Terrace.

Central Broward Water Control District - West Basin Survey

Project Surveyor - Mr. Messina created a specialized Data Dictionary Files (DDF) to acquire field GIS Data collection to automate office data entry into PCSWMM software required for drainage calculation. Provided technical support and training for field engineer to collect the data using Trimble Geo 7X GIS data collector. Developed office procedures required to automate the import of canal cross sections & engineering data into PCSWMM.



PROJECT ROLE | Construction Management

implement traffic calming measures to enhance the safety of pedestrians and automobiles on Floranada Road between Dixie Highway and Federal Highway. Improvements surveyed, designed and permitted by Craven Thompson & Associates, Inc. included traffic roundabouts at the roadway intersections with NE 13th Avenue and NE 16th Avenue. Two traffic chokers were installed at NE 15th Avenue and at NE 15th Terrace.

NE 5th Avenue Roadway & Streetscape Improvements - Oakland Park, Florida - Construction Manager. This 0.6 miles roadway project consisted of reconstruction of a two (2) lane roadway, paver intersection and crosswalks, addition of parallel parking stalls, 3,000 linear feet of water main replacement, 2,500 LF of storm drain installation, sidewalks, landscaping and irrigation, lighting and franchise utility service placement underground.

City of Aventura General Consulting Services | Aventura, Florida | Construction Manager
Mr. Shaver is responsible for construction management for construction of capital improvement projects including roadway and drainage improvements; infrastructure improvements; park projects; street rehabilitation; traffic improvement projects; and roadway lighting.

SW 41st Place, Eastside Infrastructure Improvements, Phase I, Town of Davie, Florida
Responsible for Construction Management of the roadway and right-of-way infrastructure for the SW 41st Place Project. This included roadway reconstruction, new sidewalk, curb & gutter, water, sanitary and drainage. This is Phase I of the Eastside Master Infrastructure Improvements.

Don Soffer Exercise Path Beautification Improvements | Aventura, Florida | Construction Manager
Mr. Shaver was responsible for Construction Management - Project included design, permitting, coordination with FDOT and construction of improvements to upgrade the City's exercise trail that extends along the entire length of Country Club Drive. This was a Federal Funded Project. The inspections and reporting for the project were all in accordance with Federal requirements.

City of Miami Gardens Livable Neighborhoods Improvements Project - Project Manager
Project Manager responsible for the preparation of a Basis of Design Review for four (4) communities that included streetscape, storm water modeling with ICPR, new storm sewer system and storm water quality treatment, street lighting and landscaping improvements to select roadway corridors along with comprehensive storm water management systems for each neighborhood.

South County Neighborhood Improvements Project | Broward County, Florida | Construction Manager
Mr. Shaver was responsible for the construction management of major sections of the South County Neighborhood Improvement Project. The project consisted of twelve construction packages with a total construction cost of approximately \$70 million dollars. Improvements included water distribution, sanitary sewer, lift stations, force main, storm water improvements and roadway construction. The project included the design, permitting, bidding and construction consisting of 53 miles of roadway, 181,000 linear feet of storm sewer (including exfiltration trench), 140,618 linear feet of water main, 236,226 linear feet of gravity sanitary sewer, and 80 miles of sidewalk.

Garden Acres Neighborhood Improvements | Oakland Park, Florida | Construction Manager - Mr. Shaver was responsible for Construction management for the construction of the Garden Acres Neighborhood Improvements. The project consisted of water distribution system, sanitary sewer system, lift station, storm water system and roadway re-construction.

Harlem McBride Area Improvements | Oakland Park, Florida | Construction Manager
He was responsible for Construction management for drainage and roadway construction of Harlem McBride area. The project consisted of a water distribution system, a storm water system, and roadway pavement milling & overlay.

ADEBAYO COKER, PE
Senior Engineer

Served as Lead Designer responsible for development of plans to 90%. Project included design for drainage, lighting, signalization, roadway reconstruction as well as public involvement. Duration: 2016-2017

SR 821 HEFT ROAD STREET (SUNSET DRIVE) TO SW 40TH STREET (BIRD ROAD) – SIGNALIZATION & UTILITY RELOCATIONS, FP ID Nos. 427146-1-5601 AND 42146-1-52-01 FDOT DISTRICT 6, MIAMI, FLORIDA, PROJECT REFERENCE: STEPHANIE SHARP, 407-384-4412, stephanic.sharp@dot.state.fl.us: Served as Design-Build Project Manager for signalization design and improvements for ten (10) signalized intersections. Design includes news signalization loops and assembly, new and relocated signal heads, pedestrian heads and detectors, sign panels including internally illuminated signs, video monitors, mast arms and traffic controller assembly. Also served as Project Manager for utility line relocation of 2,500 feet of 8-inch water line and 900 feet of 4-inch sewer line. Duration July 2014 – ongoing (90% plan stage)

NW 36TH STREET BRIDGE BETWEEN LEJUENE ROAD (NW 42ND AVENUE/STATE ROAD 953) AND OKEECHOBEE ROAD (US 27, STATE ROAD 25) MOT, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), DISTRICT 6, MIAMI-DADE COUNTY, FLORIDA, PROJECT REFERENCE: DANIEL IGLESIAS, P.E., 305-470-5289, daniel.iglesias@dot.state.fl.us: Served as Project Manager to perform MOT for the proposed bridge improvements i.e. converting the existing 4 lane bridge to 5 lane divided bridge, two lanes eastbound and three lanes westbound. FDOT plans to close the bridge to expedite the construction. Prepared the Maintenance of traffic and Detour Plans and construction documents for the roadway closure. Performed analysis of a maximum three viable detour alternatives and produced one complete set of MOT documents for the preferred MOT alternative to close NW 36th Street for a maximum of 6 months. Duration: 10/2010 – 2013

SW 147TH AVE. FROM SW 17TH STREET TO SW 26TH STREET, MIAMI-DADE PARKS & RECREATION: PROJECT REFERENCE: LYDIA SALAS, 305-755-5456, Lydia.Salas@miamidade.gov: Responsible for the design of the horizontal and vertical alignment, storm drainage system, cross sections, drainage structures for the proposed reconstruction project of 0.5 mile. Project required extensive coordination with South Florida Water Management District and DERM to acquire the environmental permits for the proposed construction. Also generated signing and pavement marking plan, lighting and traffic control plans. Duration: 6/2009 – 2014

I-595 CORRIDOR ROADWAY IMPROVEMENTS PROJECT, AECOM/FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), DISTRICT 4, BROWARD COUNTY, FLORIDA: PROJECT REFERENCE: REY RIVAS, 305-594-0457: Performed interdisciplinary coordination of structural, geotechnical, utilities, drainage, MOT, SUE, and surveying for this Private-Public Partnership project (P3) which extends from I-75 to I-95. The project length was approximately 14 miles. Reviewed engineering design plans for roadway, utilities, drainage, ITS, signalization, structures, TCP and lighting. Coordinated and scheduled survey, geotechnical, CCTV, and SUE field activities. Oversaw project scheduling, cost estimate, weekly design meeting, permits, landscaping, roadway, ITS, Geotechnical reports, miscellaneous structures, bridge, emergency access gate design, power design plan submittal packages. Attended meeting with local municipalities and permit agencies to present project and report status. Performed public involvement and attended public meetings. Supervised design activities and coordinated personnel. Duration: 3/2009 – 2014

NW / SW 12TH AVE. FROM SW 13TH TO NW 7TH STREET, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), DISTRICT 6, MIAMI-DADE COUNTY, FLORIDA: PROJECT REFERENCE: HAROLD DESDUNES, 305-470-5271: Served as Project manager for a RRR Milling and resurfacing project with slope correction, drainage, traffic calming, and ADA sidewalk construction. The construction cost of the project was \$7,294,000. Responsible for the design and preparation of construction plans including roadway plans, signing & pavement marking, MOT, drainage, cross sections, signalization, grading, and traffic calming bulbouts. Duration: 8/2005 – 4/2007

GERARD OSBORNE, PE
Senior Traffic Engineer

OPERATIONAL ANALYSIS SYUDY AT MDX TOLL PLAZAS, MIAMI-DADE EXPRESSWAY AUTHORITY,
PROJECT REFERENCE: JACK SCHNETTLER, P.E., 305-514-3369, jack.schnettler@atkinglobal.com:
Transportation Engineer providing traffic analysis and data collection support services. Duration: 1995 – 1996

SR 826 CORRIDOR IMPROVEMENTS PROGRAM, MIAMI-DADE EXPRESSWAY AUTHORITY, PROJECT
REFERENCE: JACK SCHNETTLER, P.E., 305-514-3369, jack.schnettler@atkinglobal.com: Transportation
Engineer providing operational analysis and microsimulation of alternative freeway and interchange configurations.
Duration: 1994 - 1995



Electrical Design Associates

Dameion Donaldson, P.E.

Professional Record

Mr. Donaldson is an electrical engineer with 12 years of experience in various projects within the private and public sectors. He is experienced in designing electrical power distribution for municipal systems, water and wastewater treatment facilities, above and below ground distribution systems, lighting systems for roadway and industrial facilities. His electrical designing responsibilities encompass all aspects of drawing production, as well as system design.

Experience:

Mr. Donaldson has been involved in the electrical system design on a variety of projects including, but not limited to:

- Rutland Boulevard Improvements
West Palm Beach, Florida
- Sandalfoot Boulevard Lighting Improvements
Palm Beach County, Florida
- Haverhill Road Lighting Evaluation
Greenacres, Florida
- SW 12th Avenue Improvements
Delray Beach, Florida
- Monceaux Road Improvements
West Palm Beach, Florida
- Waterfront Commons
West Palm Beach, Florida
- NE 1st Avenue Improvements
Delray Beach, Florida

Academic Credentials:

Bachelors of Science in Electrical Engineering
Florida International University, 2003

Professional Engineer – Florida 70851

Employment Record:

2011-Present: Electrical Design Associates, Inc.
Electrical Engineer

2009-2011: Lea & Elliot, Inc.
Electrical Project Engineer

2008- 2009: Gers USA Consulting
Electrical Engineer

2006-2008: Electrical Design Associates, Inc.
Electrical Engineer

2004-2005: Ivax Research, Inc.
Electrical Project Engineer

Principal Areas of Expertise:

Electrical Design of Power Distribution, Lighting, and Fire Alarm Systems for Environmental, Municipal and Commercial Projects

Electrical Cost Estimating
Testing and Commissioning

Professional Activities:

Florida Engineering Society (FES)
Institute of Electrical & Electronics Engineers (IEEE)
IEEE Power and Energy Society

WAYNE WEBB'S REPRESENTATIVE PROJECT EXPERIENCE (cont'd)

Education:

- Florida International University, Miami, Florida
- Gilbert Porter Elementary School, Miami, Florida
- North Miami Senior High School, Miami, Florida
- University of Miami, Coral Gables, Florida
- Miami-Dade College, Miami, Florida
- St. Brendan High School, Miami, Florida

Apartment/Condominiums:

- Ocean One, Miami, Florida
- Ocean Two, Miami, Florida
- Ocean Three, Miami, Florida
- Trump Tower I, II, III, Miami, Florida
- Icon Brickell, Miami, Florida
- 50 Biscayne, Miami, Florida
- La Costa Apartments, Boca Raton, Florida
- Royal Pointe Town Villas, Miami, Florida
- Ibis Villas, Miami Gardens, Florida
- Seaside Residences, Key West, Florida
- Club West St. Andrews @ Kings Point, Delray, Florida

Municipalities/Government:

- Miami Dade County, Florida
- City of Sunrise, Florida
- City of Plantation, Florida
- City of Hollywood, Florida
- City of Coral springs, Florida
- City of Fort Lauderdale, Florida
- City of Miami Beach, Florida
- City of Coral Gables, Florida
- City of Miami, Florida

Office:

- General Funding Building, Coral Gables, Florida
- Met 2 Office Tower, Miami, Florida
- Perez Office Building, Fort Lauderdale, Florida
- Esplanade Medical Center, Miami, Florida
- Exxon Silver Bluff Corporate Park, Miami, Florida

Hotel:

- Met 2 Hotel Tower, Miami, Florida
- Ritz Carlton, The Cayman Islands
- Holiday Inn Express, Miami, Florida
- Victor Hotel, Miami Beach, Florida

ACES

- New York Power Authority: design and construction support for vehicle security barriers at various New York Power Authority facilities. Design complies with Nuclear Regulatory Commission requirements, NUREG CR-6190.
- New York Power Authority: electrical and structural design for the installation of a 138kv high voltage power cable connecting the 50 megawatt New York Power Authority Seymour gas Turbine Power Plant to the Con Edison Greenwood Substation in Brooklyn (The Seymour 13kv Interconnect Project).
- Con Edison Civil Engineering Group: structural engineering and inspection services for various projects which included bridge and tunnel inspections for all facilities, Local Law 11 façade inspection for the East River Station as well as steel and concrete inspection and repair designs for the 59th Street, the 74th Street, the East River, and Hudson Avenue stations.
- Con Edison: on-call contract for the Gas Engineering Division providing the design and layout of various Gas Engineering projects as well as Engineering Services.

New York Power Authority, White Plains, NY, Senior Project Manager, 1988 – 2003

Responsible for management of conventional power plant facility upgrades and overhauls as well as construction of new facilities. This work included managing the development of bid specifications and drawings, developing the budget, awarding the contract, and overall management of various projects through construction and certificate of occupancy as required. Also, responsible for turbine unit overhauls at a hydroelectric facility including interface with vendors and site staff. Projects ranged in value from \$259,000 to \$10,000,000.

Manager, Engineering Programs and Technical Specialists

Responsible for the technical and administrative management of the Engineering Programs/Specialist Group for Civil/Structural, Mechanical, Instrumentation and Controls, Electrical, and Fire Prevention Engineering Groups that support two operating Nuclear Power Plants. This included directing all projects, manpower forecasting and allocation, preparing the annual budget, monitoring contracts and performance of staff contractors and outside consultants, preparing annual performance reviews, interfacing with other engineering and operations departments, and representing the Nuclear Engineering and Design Group before the Nuclear Regulatory Commission as required.

Director, Nuclear Engineering and Design

Responsible for the technical and administrative management of the Civil/Structural, Mechanical, Instrumentation and Controls, Electrical, and Fire Prevention Engineering Groups that support two operating nuclear power plants and represented this group before the Nuclear Regulatory Commission as required.

Manager, Civil/Structural Engineering Group

Responsible for the technical and administrative management of the Civil/Structural work at two operating nuclear power plants and represented this group before the Nuclear Regulatory Commission as required.

Supervisory Engineer, Civil/Structural Engineering Group, Nuclear Engineering and Design

Held increasing levels of responsibility in Civil/Structural special group that performed multifaceted analysis and design tasks related to power plants, including seismic analysis, design of piping systems, plate and shell structures, and various building structures. Project manager for specialized fracture mechanics and structural analysis projects. Supervised work for critical structures inside nuclear units performed by outside consultants. Represented New York Power Authority at meetings with the Nuclear Regulatory Commission. Maintained coordination with other engineering disciplines and project groups within New York Power Authority.

Absolute Civil Engineering Solutions, LLC

Shaista Javed, PX, BN, CTQP

Plans Examiner & Project Inspector

Ms. Javed has more than 23 years of experience in the fields of architecture and construction administration in a variety of educational, governmental, aviation, and hospital facilities. Coupled with international experience as a project manager and architect, she is well-versed in all aspects of design and construction administration including the preparation of construction documents, specifications, and drawings. Ms. Javed serves as a Plans Examiner and Project Inspector for ACES and is responsible for performing quality assurance and code compliance plan review and inspections on commercial and residential buildings.

REPRESENTATIVE PROJECT EXPERIENCE:

Miami Dade College (MDC) Plans Review and Inspection Services, Miami, FL. As associate construction manager, Ms. Javed is responsible for building plans examination, building code inspections, and construction management. This contract for MDC consists of performing code-related plan reviews and inspection services for various projects for all MDC campuses. Assignments have included the reroofing project at the Kendall Campus, Building 3000, that involved miscellaneous electrical and mechanical work as well as plan reviews; renovation of the gymnasium at the North Campus, Building 400, that consisted of reviewing the Phase III documents and performing inspections based on the FBC; plan reviews and code-inspection services for the SET and BURN buildings at the North Campus; Computer Center renovations at the Kendall Campus; and Americans with Disabilities Act (ADA) compliance plan review and inspection services for the street-crossing project at the North Campus. Total construction cost for the aforementioned projects is more than \$50 million.

Hurricanes Wilma and Katrina Remediation Services, Fort Lauderdale, FL. As associate construction manager, Ms. Javed provided hurricane damage assessments and project/construction management for the City's Public Assistance Program requirements to over 45 facilities citywide. This contract with the City of Fort Lauderdale involved design, engineering, architectural, and project management services for repairs and renovations to city buildings, facilities, and surrounding areas that were damaged as a result of Hurricanes Katrina and Wilma. Estimated construction cost was \$14 million.

Kendall Town Center Site Development and Roadway Widening Design and Construction Phase Services, Miami, FL. As senior construction management representative, Ms. Javed's responsibilities included conventional construction engineering and inspection (CEI) and site development inspections including but not limited to daily work documentation; and digital pictures being taken, printed, logged, and labeled. Kendall Town Center is a \$14.6 million initial development that will be part of a multi-phase development, which will include a new 300+ bed Baptist Hospital facility, a new shopping center to include professional office space, and a residential development. Services provided to the developer, General Growth Properties, involved design of infrastructure installations ranging from water, sewer, drainage, lighting, signalization, sidewalk, curb/gutter, pond excavation, small bridge, and roadway installations. Additionally, construction phase services were provided for the \$10 million widening of North Kendall Drive. Construction cost was \$24.6 million.

EDUCATION:

*B.Arch., Architecture,
NED University of
Engineering, 1984*

CERTIFICATIONS / REGISTRATIONS:

- Standard Building Inspector - BN6067
- Standard Plans Examiner - PX3161
- FDOT Advanced Maintenance of Traffic
- FDOT Construction Training Qualification Program (CTQP)
- FDOT Asphalt Paving Technician – Levels I and II
- CTQP Earthwork Construction Inspection – Levels I and II
- CTQP Final Estimates – Level I Troxler
- Nuclear Radiation Safety Training Course, (CPN)

AFFILIATIONS:

- *American Institute of Architects, Associate*
- *International Code Council*
- *Florida Concrete & Products Association (FCPA)*

Absolute Civil Engineering Solutions, LLC

Paul Young

Field Technician/ Lead CEI Inspector

Mr. Paul Young has worked for more than 15 years in the Civil Engineering Industry as Quality Control on Federal, County and private sector projects in Roadway, Bridge, and Building Construction and he currently serves as Field Technician with Absolute Civil Engineering Solutions (ACES), LLC. He holds a BSc in Construction Management and certifications is current with all of his certifications.

CONSTRUCTION TRAINING QUALIFICATION PROGRAM (CTQP) AND OTHERS

- QC Manager
- Earthwork Inspection Level 1 & 2
- Asphalt Paving Technician Level 1 & 2
- Asphalt Plant Technician Level 1 & 2
- Drill Shaft Inspection
- ACI Concrete Transportation Construction Inspector- all bridges (Level 2)
- OSHA Certification
- Maintenance of Traffic Training (MOT)
- Florida Dept. of Environmental Protection (FDEP)
- Florida Storm Water, Erosion and Sedimentation Control Inspector
- Nuclear Gauge Safety Training
- Troxler and Hazmat Certification

REPRESENTATIVE PROJECT/WORK EXPERIENCE:

04/16 - Present **Absolute Civil Engineering Solutions, LLC. I-75 Segment C, CEI Services for SR 93/1-75 Managed Lanes from s/o of Miramar Parkway, FDOT Project No. 421707-4-62-01 CEI/Inspector**

- Duties include reviewing and verifying Geotechnical data, pile load testing and foundation Studies regarding the installation and testing of the pile foundation system for the bridges as well as verification related to Concrete Material Testing. All work was performed in accordance with the appropriate local, FDOT, federal, and state standards.
- Ensures that work conforms to the plans and specifications of the contract and in accordance with policy requirements.
- Monitors the Contractor Quality Control Program.

03/15 - 01/16 **HNTB Corporation (All aboard Florida), West Palm Beach, FL**

CEI/Inspector III

- Civil inspection on grade crossings, roads, and bridge foundations between Miami and West Palm Beach along the Florida East Coast Railway tracks
- Inspection of the installation of the Intelligent Transportation Systems - (conduits, fiber optics, and HH boxes, etc.)
- Ensures that work conforms to the plans and specifications of the contract and in accordance with policy requirements.
- Monitors the Contractor Quality Control Program.

ANDRES GARCIA, ULM
Utility Location Manager, ULM

InfraMap Corp - West Palm Beach, Florida

EDUCATION

Palm Beach State College, Associates in Science

TRAINING

InfraMap Training Program for Utility Locating & Designating Certification/Instructor
ATSSA, Traffic Control Supervisor Certification, August 2000
Confined Space Entry Training Program Certification (OSHA 1910.146)
FUCC Utility Coordination Discussion Seminar Regular Attendee
CSX Roadway Worker Protection Annual Certification



KEY QUALIFICATIONS

Mr. Garcia has performed utility locating assignments for InfraMap Corp in Florida, Virginia, Maryland, Georgia and Alabama since 1998. He currently is a Senior Utility Location Manager and is proficient with utility designating, performing test holes and utility CADD. Mr. Garcia's responsibilities include utility designation and test hole project management, attending utility scoping meetings, obtaining permits, records research, traffic control supervision, field data collection, quality control of the field work and FDOT Standards Compliance for each delivered submittal. His duties also include vacuum excavation equipment maintenance.

Mr. Garcia has excelled as a survey party chief with experience in Total Station survey and data collector knowledge (electronic field book, TDS functions, and three wire bench runs and GPS/RTK on several designating and utility locating projects). His assistance in the survey EFB data collection compliance further adds to InfraMap's knowledge and experience. His role as Senior Utility Location Manager is obtaining utility records and ROW permits, QA/QC, supervisory of field crews, meeting with utility company personnel and Maintenance of Traffic (MOT) set up.

PROJECT EXPERIENCE

FDOT District 4 - District-Wide Utility Locating Services Contract # C-9161 (April 18, 2011 - Current):
InfraMap has provided utility designating, air/vacuum test holes, survey and EFB/CAiCE/MicroStation CADD on highway projects in District 4 in support of the District's pre-design program through private consultants and in-house design program. InfraMap has had a district-wide utility locating contracts since 1996. Reference: Mr. Jeff Smith, District Surveyor (954) 777-4579

FDOT District 4 – District-Wide Survey Services Contract # C9906 (December 2012 – December 2017)
InfraMap provides utility designating, air/vacuum test holes, and EFB/CAiCE/MicroStation CADD on survey projects. We are a sub-consultant to Bowman Consulting. Reference: Mr. Adam Dao, PSM (772) 283-1413

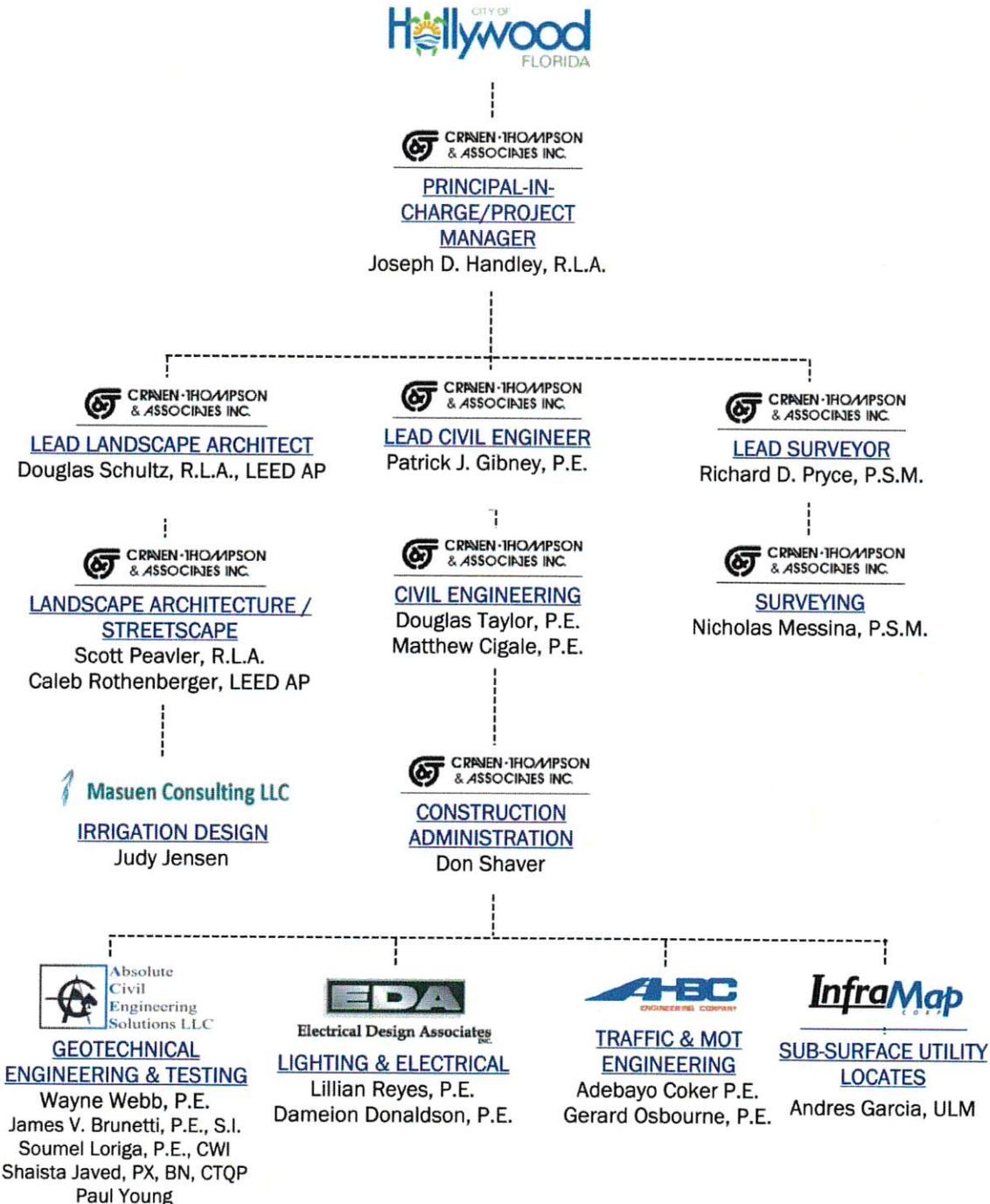
FDOT District 4 – District-Wide Survey Services Contract # C9160 (June 2015 – December 2020)
InfraMap provides utility designating, air/vacuum test holes, and EFB/CAiCE/MicroStation CADD on survey projects. We are sub-consultant to Biscayne Engineering Inc. Reference: Mr. Mike Bartholomew, President (305) 324-7671

FDOT District 4 – Designating Services for Port Saint Lucie Contract # C9161 (February 2015 – February 2025)
InfraMap provides utility designating, air/vacuum test holes, and EFB/CAiCE/MicroStation CADD on this designating project in District 4. InfraMap is a sub-consultant to American Consulting Engineers of Florida, LLC. Reference: Mr. Christopher O'Reilly, PE (561) 253-9563

FDOT District 6 District-Wide Utility Locating Services Contract # C-9C12 (July 25, 2013 - Current):
InfraMap has provided utility designating, air/vacuum test holes, survey and EFB/CAiCE/MicroStation CADD on highway projects in District 6 in support of the District's pre-design program through private consultants and in-house design program. InfraMap has had consecutive district-wide utility locating contracts since 1997. Reference: Mr. Tony Soto, Project Manager (305) 470-5232

g. Describe the organization of the proposed project team, stressing level of experience and qualification, detailing the level of involvement, field of expertise and estimated hours for each member of the team.

- Organizational Chart



KEY PERSONNEL	ROLE AND EST. HOURS PER WEEK	COMPANY AND YEARS TOTAL EXPERIENCE	BRIEF DESCRIPTION OF QUALIFICATIONS
Matthew Cigale, P.E.	Civil Engineer 16 Hrs./Week	CTA 21 Years	Mr. Cigale has over twenty-one years of experience providing project management, design and construction management services for projects including roadways, municipal facilities, utility agencies, park departments, and numerous other entities.
Don A. Shaver	Construction Services Director 16 Hrs./Week	CTA 37 Years	Mr. Shaver's is responsible for coordination with clients and contractors, supervision of inspection personnel, inspection of site engineering projects including roadways, hardscape, earthwork, water distribution, sanitary sewer systems, and storm.
Richard Pryce, P.S.M.	Lead Surveyor 24 Hrs./Week	CTA 46 Years	Mr. Pryce's experience includes route surveys of urban and rural highways, storm water collection systems, water systems, and sanitary sewer systems. He is very adept at G.I.S.
Nicholas Messina, Jr., P.S.M.	Surveyor 16 Hr./Week	CTA 28 Years	Mr. Messina has been the Project Surveyor/Manager for variety of surveys such as ALTA/ACSM Land Title, As-Built, Boundary and Topographic, Control and Quantity Surveys. He has 15 years of public sector experience.

During the initial meetings, we must address issues such as:

- What are the deficiencies/problems with the street today?
- Where are there gaps in the pedestrian network, near or along the street?
- Are there gaps in the overall street network (connectivity, capacity, etc.)?
- What are the key opportunities with this project (i.e. a tool for economic development and improved community health, a missing link in the pedestrian system, improving the level or quality of service)?



From this point, CTA will develop concept(s) to meet study principles and based on input throughout the process. The concepts will include graphic representation of the preferred cross-sections and street layout plans indicating all horizontal and vertical features. Additionally, we will prepare a preliminary cost estimate for each concept. This information will be presented to the public in a meeting format and on the City’s website.

Not all streets need sidewalks, crosswalks, and bike lanes to accommodate Complete Streets. Furthermore, not all roads scheduled for complete street improvements have sufficient right-of-way to include all of the desired elements. Priority should be given to completing “missing links” in the sidewalk infrastructure, as well as connecting low-income and/or low mobility populations to shopping, schools and other services. Bicycle accommodations should be strategically placed to link parks, trails and other recreational facilities and promote “off-road” bicycle facilities wherever practicable. Safe trail crossings and improved linkages between recreational areas and nearby businesses is an important consideration. This information will be presented to the public in a meeting format and on the City’s website.

To extend the opportunity for public comment on the proposal, at the public’s convenience, we propose to establish further public outreach measures to inform and gather input. Techniques may involve:

- Additional Workshops/Charrettes
- Postings on the City website
- Stakeholder / Focus Group Interviews
- Online Surveys
- Establishment of social media sites for review and comment
- Creation of an email address to comment on project

Based on the previous process with all input taken into consideration, the City will select one of the proposed concepts with which to move forward.

A plan addressing anticipated issues during construction will be presented to the neighborhood involving such topics as road closures, traffic management, public safety issues, access to property, parking, bus routes, safe sidewalk access, routes to schools, construction hours, dust control, noise control, and construction material & equipment storage in the area.

Meetings

Regular project meetings will be held with City staff for all phases of the project. CTA will facilitate these projects and attendees present at the meetings will be dependent on the phase of the project and the issues to be addressed. These meetings will be focused on adherence to the project timeline, quality control, budget, and also on the resolution of any outstanding issues.

Complete Streets, Sidewalk, Streetscape, Lighting, Driveway & Right-of-Way Improvements

Streetscapes are extremely important design elements of any city. They often set the main impression on someone that is only passing through. Often overlooked or downplayed, streetscapes actually provide an amazing opportunity to compliment the image and beautification of the municipality while strengthening the branding that the City is nurturing. Our approach begins with creativity in design. This would involve innovative uses of hardscapes and landscape while enhancing pedestrian connectivity, bicycle access, mass transit opportunities, and developing good street & pedestrian lighting (through our sub-consultant **Electrical Design Associates**). Although, we will be somewhat limited by right-of-way width constraints, these goals are achievable.

We will identify and document the current City of Hollywood standards, and identify what information from those standards will be included in the various complete street designs design. Based on this assessment, CTA will create an inventory map for the existing right-of-way improvements. Items addressed in this section will include, but not be limited to, discussions with the City staff to finalize sidewalk location/widths, hardscape, pedestrian & roadway lighting standards, and identify areas where physical constraints may limit the ability to meet the desired standards.



PERMITTING SERVICES

Initially, CTA will take the plans through the City of Hollywood permitting process (and TRC if necessary). This will occur at around the 90% Final Design Phase (or earlier).

CTA will prepare the design permit applications and supporting documentation at the 90% construction document stage to obtain the construction permits for the projects. During this period, the CTA Team will prepare and submit responses to “Requests for Additional Information” (RAI) relative to the permitting packages submitted. Any comments or additional requirements will be discussed with the City and if deemed acceptable incorporated into the design prior to preparing the 100% design documents.

Permits will be obtained through the City, Broward County Traffic Engineering – Pavement Marking & Signage, Broward County-EPGM-DER, Surface Water & Environmental (also for SFWMD – Storm Water), the National Pollution Discharge Elimination System (NPDES) permit, and the Florida Department of Transportation (FDOT), as necessary.

CTA will expedite the permits through the various agencies in order to remain on schedule and will review the comments from the agencies to determine the implications on the budget and timing of the project. Should there be negative impacts, we will aggressively pursue the mitigation of these impacts.

In addition, CTA will review the project from a “constructability” of design perspective to meet the City of Hollywood’s goals and objectives and to maintain a firm grasp on the costs associated with the project. The “constructability” of a design is an important facet to consider during each phase of a design’s development. However, when a preliminary design is nearing substantial completion (90% plans), it undergoes an in-house constructability review by our construction services personnel. This review specifically targets construction related issues, and is intended to minimize potential problems in the field during construction. Important issues such as conflicts with existing utilities often occur on projects involving infrastructure improvements in older existing neighborhoods. Existing utilities are often found in degraded condition and were most likely originally installed to much less stringent standards. Therefore, when crossing or encountering existing utilities to remain in place, special construction methods and care must be taken to ensure that the utility is properly supported and protected while new construction is being completed.



During our various internal review processes, we will also value engineer the project. Value engineering is not simply cutting the cost or scope of a project to reduce budget, it is a creative, organized effort, which analyses the requirements of a project for the purpose of achieving the essential functions at the lowest total costs (capital, staffing, energy, maintenance) over the life of the project.

During the construction process, CTA will work with the City of Hollywood and the contractor with the goal to complete the project on time and under budget.

During the first week of construction, the project manager/construction manager will be on-site interacting monitoring the construction. The CTA project manager will keep in close contact with the city project manager and provide regular updates on the progress and issues related to the project.

In order to keep the City of Hollywood fully informed, CTA will generate weekly project status reports. We will communicate directives and clarifications on the project, as necessary. The construction manager will play a critical role during the construction process by reviewing the contractor's work and identifying issues when they are discovered. Bi-weekly site meetings will be scheduled and facilitated by the construction manager in order to review the project schedule and to maintain organization and communication.

In addition, we will review payment requests and quantities for payment; prepare an itemized unit quantities and unit cost spreadsheet to verify conformance with the contract; review and approve shop drawings; prepare Certified Recommendations for Payment, resolve field issues, review contractor requests for additional information (RAIs); setup and attend construction progress meetings; review Maintenance of Traffic (MOT) plans; review and monitor Storm Water Pollution Prevention Plans (SWPPP), coordinate field and office as-built data; monitor testing; act as Hollywood's agent during the construction process; attend pre-final inspection and prepare a punch-list. During construction, the project manager & construction manager will meet with the City of Hollywood staff to monitor schedules and budget and assist in the administration of the contract. The project manager & construction manager will maintain copies of the daily reports, the contractor's progress reports, change order requests, and updated construction schedules. We will maintain a project file throughout the duration of the project, which will be provided to the City staff upon completion of the project.

Staff Assigned

Joseph D. Handley, R.L.A. will be responsible for project management and will be the main client contact. Joe will also lead concept development, and the public outreach efforts for Craven Thompson & Associates, Inc. (CTA).



Douglas Schultz, R.L.A., LEED AP will be responsible for project planning and concept development. He will also work on the contract documents, approvals, along with bid assistance and construction inspection.

Scott Peavler, R.L.A. will be responsible for contract document development approvals.

Caleb Rothenberger R.L.A., LEED AP will be responsible for work on the contract documents, the creation of renderings and obtaining approvals.

Patrick J. Gibney, P.E. will be the civil engineering lead for all civil work on these roadway projects. This includes, paving, grading, curb & gutter, pavement marking & signage, drainage, and water & sewer as necessary.

Matthew Cigale, P.E. will be in creating the modeling, design, contract documents, permitting, and bid assistance for all civil work on these roadway projects. This includes, paving, grading, curb & gutter, pavement marking & signage, drainage, and water & sewer as necessary.

Douglas Taylor, P.E. will also be involved in creating the modeling, design, contract documents, permitting, and bid assistance for all civil work on these roadway projects. This includes paving, grading, curb & gutter, pavement marking & signage, drainage, and water & sewer as necessary.

Richard D. Pryce, P.S.M., and Nicholas Messina, Jr., P.S.M. will assist with any ancillary survey which may become necessary. We understand that the City may provide the survey separately; however, CTA is under contract to the City for surveying services on a continuing basis.

Don Shaver will be responsible for coordination with clients and contractors, supervision of inspection personnel, inspection of site engineering projects including roadways, hardscape, earthwork, water distribution, sanitary sewer systems, and storm.

Wayne Webb, P.E. of Absolute Civil Engineering Services (ACES) will provide geotechnical and testing services on the project.

Lillian Reyes, P.E. of Electrical Design Associates (EDA) will lighting design and all other electrical engineering on the projects.

Adebayo Coker, P.E. of HBC Engineering will provide traffic Services, M.O.T. design, and traffic signal design.

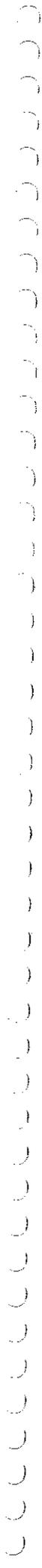
Judy Jensen with Masuen Consulting will provide Irrigation Design Services.

- **Broward County Convention Center & Hotel Expansion (5% complete)**
 (15% Design Complete - Project Design over 4-year period)
Personnel on Project: *Joseph D. Handley, R.L.A., Douglas Taylor, P.E.* , Timothy Hall, P.E. (PM), Fareez Abraham, E.I., Matthew Vorderer, P.E.
Construction Cost: \$1.8 million (Sitework cost)
- **Sunrise Athletic Complex (45% Design Complete)**
 Personnel on Project: *Douglas Schultz, R.L.A., LEED AP*, Chad Edwards, P.E. (PM), Mary Kusper, E.I.
Construction Cost: \$1.5 Million (Site work Cost)
- **Plantation Fashion Mall (50% Design Complete)**
Personnel on Project: *Douglas Schultz, R.L.A., LEED AP*, Timothy Hall, P.E. (PM), Eric Toebe, E.I., Kevin Menting, E.I., Edwin Franceschi, E.I., Fareez Abraham, E.I.
Construction Cost: \$4 Million (Sitework)
- **Miramar Complete Streets Project (95% Design Complete)**
Personnel on Project: *Scott Peavler, R.L.A., Douglas Taylor, P.E. (PM)*, Matthew Vorderer, P.E., Mary Cook, P.E.
Construction Cost: \$1.6 Million
- **Nova Southeastern University General Consulting Services**
 (%Complete- Varies - Multi-Year)
Personnel on Project: Chad Edwards, P.E. (PM), *Scott Peavler, R.L.A.*, Mary Kusper, E.I.,
Construction Cost: Varies
- **Various other Private Projects (% Complete - Varies)**
 Personnel on Project: *Joseph Handley, R.L.A., Douglas Schultz, R.L.A. LEED-AP, Scott Peavler, R.L.A.*, Peter Aquart, P.E., Chad Edwards, P.E., Gary Tenn, P.E., Mary Cook, P.E., Louis Pimentel, E.I., Kevin Menting, E.I., Keyla Lopez, E.I., Joe Carothers

Time & Budget Examples

- **Miami Gardens - Vista Verde Roadways & Drainage**
Budget: \$1,840,893.00
Actual Cost: \$1,205,604.00
- **Fleming Avenue Improvements**
Budget: \$92,275.00
Actual Cost: \$70,089.00
- **SW 41st Place Roadway & Infrastructure Improvements**
Budget: \$1,322,908.00
Actual Cost: \$1,173,716.00
- **NE 207th Street Milling & Resurfacing Project**
Budget: \$646,920.00
Actual Cost: \$555,835.00
- **NE 14th Avenue Streetscape**
Budget: \$1,340,000.00
Actual Cost: \$1,157,206.00

Activity Description	Original Duration	Remain Duration	August	Sept	Oct	Nov	Dec
Engineering Contract Award	1	1	2				
Stakeholder Site Walk	1	1					
Stakeholder Comments	10	10					
Design & Construction			2				31-Dec-19
Misc. Survey Work	5	5	2				
Information Gathering	15	15	2				
Workshop #1	1	1	1				
Stakeholder Comments	10	10	1				
Schematic Design	15	15					
Schem. Design Compl.	1	1	2				
City Review	5	5	2				
City Selects Alternative	1	1	2				
30% Conceptual Design	15	15	2				
30% Conceptual Complete	1	1	2				
30% City Review	5	5	2				
S.U.E.	20	20	2				
Geotechnical	20	20	2				
60% Design Development	25	25	2				
60% Design Complete	1	1	1				
60% City Review	5	5	1				
Workshop #2	1	1	1				
Submit for Permits	1	1	1				
90% Final Design	40	40					
90% Final Design Complete	1	1					
90% City Review	5	5					
Process Permits	60	60	1				
100% Complete Final Docs.	1	1	2				
Construction Process	1	1	2				31-Dec-19
Project Complete	1	1	3				31-Dec-19



INSURANCE REQUIREMENTS

The insurance policy shall not contain any exceptions that would exclude coverage for risks that can be directly or reasonably related to the scope of goods or services in this bid/proposal. A violation of this requirement at any time during the term, or any extension thereof shall be grounds for the immediate termination of any contract entered in to pursuant to this bid/proposal. In order to show that this requirement has been met, along with an insurance declaration sheet demonstrating the existence of a valid policy of insurance meeting the requirements of this bid/proposal, the successful proposer must submit a signed statement from insurance agency of record that the full policy contains no such exception.

The City reserves the right to require additional insurance in order to meet the full value of the contract.

The City reserves the right to require any other insurance coverage it deems necessary depending upon the exposures.

HOLD HARMLESS AND INDEMNITY CLAUSE:

Craven, Thompson & Associates, Inc.  Patrick J. Gibney, P.E., VP, Engineering

(Company Name and Authorized Signature, Print Name),

the contractor shall indemnify, defend and hold harmless the City of Hollywood, its elected and appointed officials, employees and agents for any and all suits, actions, legal or administrative proceedings, claims, damage, liabilities, interest, attorney's fees, costs of any kind whether arising prior to the start of activities or following the completion or acceptance and in any manner directly or indirectly caused, occasioned or contributed to in whole or in part by reason of any act, error or omission, fault or negligence whether active or passive by the contractor, or anyone acting under its direction, control, or on its behalf in connection with or incident to its performance of the contract.

Craven, Thompson & Associates, Inc.  Patrick J. Gibney, P.E., VP, Engineering

(Company Name and Authorized Signature, Print Name),

further certifies that it will meet all insurance requirements of the City of Hollywood and agrees to produce valid, timely certificates of coverage.

OTHER CONSIDERATIONS

Copies submitted may not be viewed until thirty (30) days after opening date or notice of intent to award is posted.

EQUAL EMPLOYMENT OPPORTUNITY

Proposer shall provide a written statement that it does not and will not discriminate against any person, employee, or applicant for employment, because of race, creed, color, religion, sex, national origin, ancestry, age or disability.

PROMPT PAYMENT: LATE PAYMENTS BY CONTRACTOR TO SUBCONTRACTOR AND MATERIAL SUPPLIERS; PENALTY:

When a contractor receives from the City of Hollywood any payment for contractual services, commodities, materials, supplies, or construction contracts, the contractor shall pay such moneys received to each Subcontractor and Material Supplier in proportion to the percentage of work completed by each Subcontractor and Material Supplier at the time of receipt. If the contractor receives less than full payment, then the contractor shall be required to disburse only the funds received on a pro rata basis with the Subcontractors and Material Suppliers, each receiving a prorated portion based on the amount due on the payment. If the contractor without reasonable cause fails to make payments required by this section to Subcontractors and Material Suppliers within fifteen (15) working days after the receipt by the contractor of full or partial payment, the contractor shall pay to the Subcontractors and Material Suppliers a penalty in the amount of one percent (1%) of the amount due, per month, from the expiration of the period allowed herein for payment. Such penalty shall be in addition to actual payments owed. Retainage is also subject to the prompt payment requirement and must be returned to the Subcontractor or Material Supplier whose work has been completed, even if the prime contract has not been completed. The Contractor shall include the above obligation in each subcontract it signs with a Subcontractor or Material Supplier.

ADA COMPLIANCE

Persons with disabilities who require reasonable accommodation to participate in City programs and/or services may call the Equal Opportunity Manager, Office of Human Resources and Risk Management at (954) 921-3218 (voice). If an individual is hearing or speech impaired, please call Florida Relay Service 1-800-955-8771.

PUBLIC ENTITY CRIMES

"A person or affiliate who has been placed on the convicted vendor list following a conviction for public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list."

DECLARATION

The aforementioned, as Proposer (herein used in the masculine singular, irrespective of actual gender and number), declares, under oath that no other person has any interest in this Proposal or in any resulting agreement to which this Proposal pertains, that this Proposal is not made with connection or arrangement with any other persons, and that this Proposal is made without collusion or fraud.

The Proposer further declares that he has complied in every respect with all the instructions to Proposers, that he has read all addenda, if any, issued prior to the opening of Proposals, and that he has satisfied himself fully relative to all matters and conditions with respect to the general conditions of the agreement and all relevant information to which this proposal pertains.

DISCLOSURE OF CONFLICT OF INTEREST

Vendor shall disclose below, to the best of his or her knowledge, any City of Hollywood officer or employee, or any relative of any such officer or employee as defined in Section 112.3135, Florida Statutes, who is an officer, partner, director or proprietor of, or has a material interest in the vendor's business or its parent company, any subsidiary, or affiliated company, whether such City official or employee is in a position to influence this procurement or not.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City of Hollywood Purchasing Ordinance.

Name	Relationship
None	

In the event the vendor does not indicate any name, the City shall interpret this to mean that no such relationship exists.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
03/29/2018

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

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

PRODUCER Corporate Insurance Advisors 1401 E Broward Blvd Suite 103 Ft. Lauderdale FL 33301	CONTACT NAME: Angela Nervi-Saketkoo PHONE (A/C No, Ext): (954)315-5000 FAX (A/C, No): (954)315-5050 E-MAIL ADDRESS: ANervi@ciafl.net														
INSURED Craven Thompson & Associates, Inc. 3563 NW 53rd Street Fort Lauderdale FL 33309	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">INSURER(S) AFFORDING COVERAGE</th> <th style="text-align: left;">NAIC #</th> </tr> <tr> <td>INSURER A: Hartford Fire Insurance Co.</td> <td>19682</td> </tr> <tr> <td>INSURER B: Hartford Property & Casualty</td> <td>34690</td> </tr> <tr> <td>INSURER C: Hartford Casualty Insurance Company</td> <td>28424</td> </tr> <tr> <td>INSURER D: Hartford Ins Co of the Southea</td> <td>38261</td> </tr> <tr> <td>INSURER E: Continental Casualty Co.</td> <td>20443</td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Hartford Fire Insurance Co.	19682	INSURER B: Hartford Property & Casualty	34690	INSURER C: Hartford Casualty Insurance Company	28424	INSURER D: Hartford Ins Co of the Southea	38261	INSURER E: Continental Casualty Co.	20443	INSURER F:	
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COVERAGES **CERTIFICATE NUMBER:** 18-19 WC,PL; 1718GL **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input checked="" type="checkbox"/> OTHER: Contractual Liab			21UUNZP1507	12/01/2017	12/01/2018	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			21UENHF3705	12/01/2017	12/01/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Uninsured motorist \$ 1,000,000
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			21XHUZP1253	12/01/2017	12/01/2018	EACH OCCURRENCE \$ 6,000,000 AGGREGATE \$ 6,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	21WBAT3534	01/01/2018	01/01/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
E	Professional Liability			AEH59198336	03/30/2018	03/30/2019	Each Claim \$2,000,000 Aggregate \$4,000,000 Deductible \$35,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER For Proposals Purposes Only	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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