

PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY

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<b>Meeting Date:</b>	<b>February 11, 2025</b>	<input checked="" type="checkbox"/>	<b>Consent</b>	<input type="checkbox"/>	<b>Regular</b>
		<input type="checkbox"/>	<b>Workshop</b>	<input type="checkbox"/>	<b>Public Hearing</b>

<b>Department:</b>	<b>Engineering and Public Works Department</b>
<b>Submitted By:</b>	<b>Engineering and Public Works Department</b>
<b>Submitted For:</b>	<b>County Administration (Water Resources Manager)</b>

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I. EXECUTIVE BRIEF

**Motion and Title: Staff recommends motion to approve:**

- A) Consultant Service Authorization No. 10 (CSA) in the amount of \$697,526.50 to the Civil Engineering Annual Services Contract (R2022-0464) dated May 17, 2022 (Contract) with Mock, Roos & Associates, Inc. (MRA) for the C-18 Canal Drainage Modifications for Palm Beach County (County) Facilities and Roads (Project); and
- B) a Budget Transfer in the amount of \$697,527 from the American Rescue Plan Act (ARPA) replacement funds for the Loxahatchee River Wetland Attenuation to Water Resources Infrastructure Capital and appropriate it to the Project.

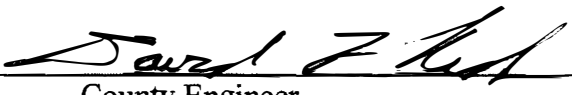
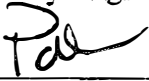
**SUMMARY:** Approval of this CSA and Budget Transfer will provide the professional services necessary to design drainage that will facilitate a future connection from the L-8 Basin to the northwest fork of the Loxahatchee River, and protect the Water Utilities Department’s (WUD) critical water and wastewater facilities (WUD Facilities) located along this potential connection. Drainage improvements to provide for the future extension of Seminole Pratt Whitney Road that are compatible with this potential connection will also be designed. The Budget Transfer is necessary to provide funds for the accelerated study, design, and potential construction of interim connection facilities. The Contract was presented to the Goal Setting Committee on June 16, 2021 and the Committee established Affirmative Procurement Initiatives (API) of a 20% minimum mandatory Small Business Enterprise (SBE) participation and a Minority Business Enterprise (MBE) evaluation preference for African American (AA) owned firms. MRA committed to 27% SBE participation. The proposed SBE participation for this CSA is 81.51%. To date, the overall SBE participation achieved on this Contract is 44.73% and 26.95% MBE participation. MRA has an office located in the County and is a certified SBE company. This Project is a precursor to the future extension of Seminole Pratt Whitney Road to connect to Avenir Drive in Palm Beach Gardens.

Due to limited time constraints, the separation of the drainage will occur in two phases. The first phase will design the required features to separate County drainage and rely on an existing pump station. The second phase will provide a permanent pump station, site design and grading to facilitate the future construction of the Seminole Pratt Whitney Road extension, as well as other potential uses by the County. **This Project is included in the ARPA Response Replacement Fund. District 1 (YBH)**

**Background and Justification:** **(Continued on Page 3)**

- Attachments:**
- 1. Location Map
  - 2. CSA No. 10 with Exhibits A, B, C, D and Ebix Insurance Compliance (2)
  - 3. Budget Transfer

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Recommended by:		1/14/2025
YBH/TEL	County Engineer	Date
Approved By:		1/21/25
	Deputy County Administrator	Date

**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2025	2026	2027	2028	2029
Capital Expenditures	\$697,527	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	\$697,527	-0-	-0-	-0-	-0-
# ADDITIONAL FTE					
POSITIONS (Cumulative)	-0-	-0-	-0-	-0-	-0-

Is Item Included in Current Budget? Yes  No

Is this item using Federal Funds? Yes  No

Is this item using State Funds? Yes  No

Budget Account No: Fund 1164 Dept 760 Unit 506A Object 6505

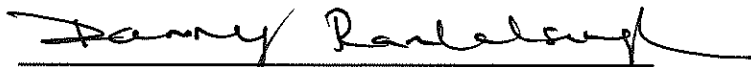
**Recommended Sources of Funds/Summary of Fiscal Impact:**

ARPA Response Replacement Fund  
 Water Resources Infrastructure Capital Plan  
 Using ARPA Replacement Funds with potential for FDEP Resilient Florida Grant. Specifically, funds are being transferred from ARPA replacement funds identified for Loxahatchee River Wetland Attenuation to Water Resources Infrastructure Capital.

**Brief Description: New consultant service authorization ( CSA)**

<b>CSA # 10</b>	
Basic Services	\$697,526.50
<b>Total CSA # 10</b>	<b>\$697,526.50</b>

**C. Departmental Fiscal Review:**



**III. REVIEW COMMENTS**

**A. OFMB Fiscal and/or Contract Dev. and Control Comments:**

 1/17/25  
 OFMB  
 MD, 1/13  
 1/19

 1/17/25  
 Contract Dev. and Control

**B. Approved as to Form and Legal Sufficiency:**

 per Liz Herman  
 Assistant County Attorney

**C. Other Department Review:**

  
 Department Director

This summary is not to be used as a basis for payment. 2

**Background and Justification (Continued from Page 1):**

In 2013, the County sold the Mecca Farms land to the South Florida Water Management District (SFWMD). The sale included the option to buy back three parcels with a total area of approximately 121 acres, containing the existing WUD Facilities and the proposed path for the extension of Seminole Pratt Whitney Road, from 100th Lane N to Avenir Drive. The WUD Facilities provide critical water and wastewater services to the Park of Commerce. The terms of the sales contract made the County responsible for all of the design and construction costs associated with separating the County's drainage from the remainder of the site in a time compatible with SFWMD's construction schedule.

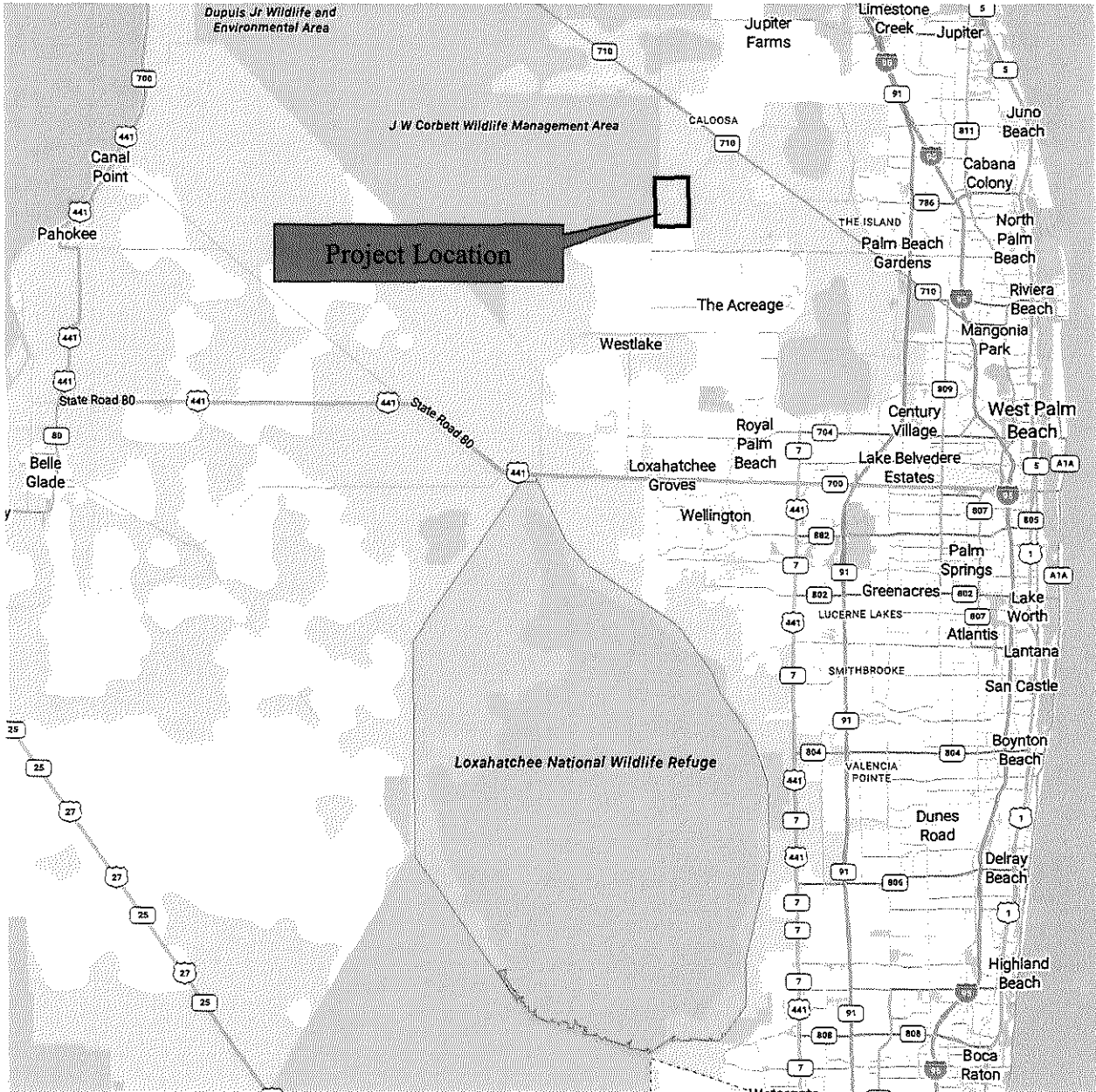
On May 17, 2022, the Board of County Commissioners (BCC) approved the Contract with MRA to provide the professional services for civil engineering throughout the County. The fee, as detailed in **Exhibit B** of the attached CSA, has been negotiated as just and reasonable compensation as follows:

Basic Services (Lump Sum)	\$697,526.50	(Master Study, Survey, Geotech, Environmental, Electrical, Drainage, Conceptual Design)
Total:	<u>\$697,526.50</u>	

After reviewing the attached CSA and finding it in proper order, the Engineering and Public Works Department recommends BCC approval.

# C-18 Canal Drainage Modifications for Palm Beach County Facilities and Roads

Palm Beach County Project #2025-601



LOCATION MAP

**CONSULTANT SERVICE AUTHORIZATION NO. 10**  
**UNDER THE CIVIL ENGINEERING ANNUAL SERVICES CONTRACT**

Project Name: **C-18 Canal Drainage Modifications for Palm Beach County Facilities and Roads**

Project No: **2025-601**

Commission District No.: 1

	<b>SBE</b>
Participation for this authorization	<b>81.51%</b>
Participation to date for this Contract	<b>44.73%</b>
Contract Commitment	<b>27%</b>
This authorization is under the EBO Ordinance.	

**PALM BEACH COUNTY**  
**BOARD OF COUNTY COMMISSIONERS**

**Account No.: 1164 760 506A 6505**

Consultant Service Authorization No. 10 (CSA) under the Civil Engineering Annual Services Contract dated May 17, 2022 (R2022-0464) (CONTRACT), between the COUNTY and the CONSULTANT identified herein is for the services described in **EXHIBIT A** and **EXHIBIT B** for this CSA.

1. CONSULTANT: Mock, Roos & Associates, Inc.
2. Address: 5720 Corporate Way, West Palm Beach Florida 33407
3. CONSULTANT shall begin work promptly on the requested Services, per the schedule attached as part of **EXHIBIT A**.
4. Scope of Services to be provided by CONSULTANT: Provide professional engineering services to Palm Beach County for the C-18 Canal Drainage Basin Modifications for Palm Beach County Facilities and Roads in accordance with the attached **EXHIBIT A** dated December 12, 2024.
5. The compensation to be paid CONSULTANT for providing the requested services as detailed in **EXHIBIT B** shall be:

<input checked="" type="checkbox"/> Basic Services in a lump sum fee of	\$697,526.50
<input type="checkbox"/> Reimbursable Expenses capped at	\$0
<input type="checkbox"/> Optional Services capped at	<u>\$0</u>
<b>Totaling</b>	<b>\$697,526.50</b>

OEBO Schedules 1 & 2 **EXHIBIT C**

6. All terms of the CONTRACT shall apply to this CSA.
7. **EXHIBIT D** provides the project history for Small Business Enterprise (SBE) and Minority Business Enterprise (MBE) participation.

**CONSULTANT SERVICE AUTHORIZATION NO. 10**  
**UNDER THE CIVIL ENGINEERING ANNUAL SERVICES CONTRACT**

IN WITNESS WHEREOF, this CSA is accepted as of the date signed by the COUNTY below, subject to the terms and conditions of the aforementioned CONTRACT.

CONSULTANT: **Mock Roos & Associates, Inc.**  
Federal ID: 59-0878800

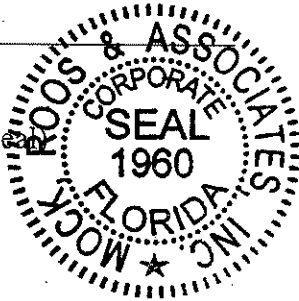
Signed: \_\_\_\_\_

Typed Name: Garrytt G. Gruber, P.E.

Title: Senior Vice President

Date: 1/8/25

(Corporate Seal)



ATTEST WITNESS:

Signed: Debra C. McTray

Typed Name: Debra C. McTray

Title: Corporate Secretary

Date: 1/8/2025

COUNTY:

Approved as to Terms and Conditions

By: \_\_\_\_\_

Typed Name: David L. Ricks, P.E.

Title: County Engineer

**CONSULTANT SERVICE AUTHORIZATION NO. 10**  
**UNDER THE CIVIL ENGINEERING PROFESSIONAL CONTINUING SERVICES**  
**CONTRACT**

{SIGNATURE PAGES CONTINUED}

COUNTY: **Palm Beach County**, a Political  
Subdivision of the State of Florida, by and  
through its Board of County Commissioners

Signed: \_\_\_\_\_

Typed Name: Maria G. Marino

Title: Mayor

Date: \_\_\_\_\_

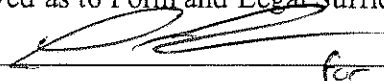
**ATTEST:**

Joseph Abruzzo  
Clerk of the Circuit Court & Comptroller

By: \_\_\_\_\_

Deputy Clerk

Approved as to Form and Legal Sufficiency

By:  \_\_\_\_\_

Typed Name: Yelizaveta B. Herman

Title: Assistant County Attorney

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**EXHIBIT “A”**  
**C-18 DRAINAGE MODIFICATIONS FOR**  
**PALM BEACH COUNTY FACILITIES AND ROAD**  
Palm Beach County Project No. \_\_\_\_\_  
**SCOPE OF SERVICES**  
December 12, 2024

**OVERVIEW**

In 2026, the South Florida Water Management District (District) is planning the construction of its C-18 Reservoir, a 9,500 acre-feet above ground water storage impoundment, in northern Palm Beach County (County) at the old Mecca Farms site (Site). Palm Beach County (PBC) owns three PBC parcels of land on the Site, specifically:

- *East Parcel* – a 260-foot-wide right-of-way along the eastmost portion of the Site (running north/south)
- *South Parcel* – a 260-foot-wide right-of-way along the southmost portion of the Site (running east/west)
- *Utility Site Parcel* – a rectangular parcel located at the southeast corner of the Site. The East and South Parcels both start/end at the Utility Site Parcel.

PBC has an existing Drainage System, including a contiguous PBC drainage canal located on all three PBC parcels and stormwater pumping facilities located in the northern portion of the East Parcel. The pumping facilities withdraw stormwater from the PBC drainage canal and discharge into the existing Above Ground Impoundment (AGI) (located adjacent to and west of the East Parcel), and ultimately into the C-18 Canal located north of the Site.

As a result of the District’s planned improvements, PBC needs to design, permit and construct temporary and/or permanent modifications/improvements to its existing Drainage System to provide:

- Interim Drainage for the Utility Site Parcel, including installation of a temporary culvert at the C-18 Canal
- Long-term Drainage for PBC’s Utility Site and future roadways, including a Permanent Pump Station at the C-18 Canal

The project will be broken into two design phases to expedite the collection of field data and investigations. The general tasks for each phase are as follows:



**Phase 1 – Field Investigations and Preliminary Engineering:**

Perform field data collection and investigations and perform preliminary design activities, including:

Field Data and Investigations

- Topographic Survey
- Geotechnical Investigation
- Wetland Survey and Delineation
- Tree Survey
- Protected Species Survey

Preliminary Design Activities

- Preliminary AGI Typical Berm Section and Temporary C-18 Canal Culvert
- Preliminary Permanent Pump Station Sizing and Site Plan
- Utility Power Feasibility Study
- Roadway Master Plan Development for South Parcel
- Conceptual Cost Estimating

**Phase 2 Design and Permitting:**

Perform design, environmental permitting and produce construction documents for:

- AGI Berm and Temporary C-18 Canal Culvert within East Parcel
- Permanent Pump Station within East Parcel
- Roadway within South Parcel and the south portion of the East Parcel adjacent to the Utility Site Parcel

PBC has requested that Mock•Roos provide engineering services to assist with Phase 1. Phase 2 will be authorized under a future supplement. Mock•Roos will provide the Scope of Services for Phase 1 as outlined below.

**SCOPE OF SERVICES DESCRIPTION**

1. Review existing documents, including but not limited to:
  - Right-of-way documents for the subject drainage area
  - FPL easement document for possible drainage provisions
  - District proposed reservoir containment berm
  - As-built information on existing facilities
  - Other documents as provided by PBC, including District permits

2. *Topographic Survey.* Provide and coordinate the surveying services of Brown & Phillips, Inc. (B&P) to perform a topographic survey within all three PBC parcels. See attached proposal from B&P, November 26, 2024, for scope of services, for scope, fee and limits. Mock•Roos will perform reviews and evaluate topographic information, prepare topographic exhibit(s), coordinate submission(s) to PBC for acceptance of survey and coordinate with B&P to incorporate and/or address PBC comments.
3. *Geotechnical Investigation.* Provide and coordinate the geotechnical services of WIRX Engineering (WIRX) to perform a geotechnical evaluation within all three PBC parcels. See attached proposal from WIRX, November 22, 2024, for scope of services. Mock•Roos will review draft and final geotechnical findings and reports.
4. *Wetland Survey and Delineation, Tree Survey and Protected Species Survey.* Provide and coordinate the environmental services of ESA / Environmental Sciences Associates to perform a Wetland Survey and Delineation, Tree Survey and Protected Species Survey within all three PBC parcels. See attached proposal from ESA, December 12, 2024, for scope of services. Mock•Roos will review draft and final findings and report, and assist with a conceptual determination of the cost associated with potential wetland mitigation, as well as potential cost or impact fees associated with mitigation/removal/relocation of trees and/or protected species.
5. *Preliminary AGI Typical Berm Section and Temporary C-18 Canal Culvert.* Assist PBC evaluate interim and/or permanent AGI Berm Typical Berm Sections within the East Parcel adjacent to/within the AGI. Assist PBC evaluate temporary C-18 Canal Culvert installation options. Develop conceptual design layout(s) and exhibits for PBC to evaluate.
6. *Preliminary Permanent Pump Station Sizing and Site Plan.* Assist PBC perform conceptual design/preliminary sizing (capacity and power needs, layout(s), etc.) of the Permanent Pump Station to be located at the C-18 Canal within the East Parcel. Capacity determination(s) will take into account Roadway Master Planning efforts in Task 8 below. Conceptual power needs will be used in Task 7 below to coordinate with the power utility to determine the improvements needed to facilitate three phase power to the proposed pump station site. Coordinate with PBC regarding design criteria to be used in Phase 2 design of the permanent pump station.

7. *Utility Power Feasibility.* Provide and coordinate the services of Hillers Electrical Engineering, Inc. (HHE) to perform a Utility Power Study to identify the availability, feasibility of routing, and associated cost of FPL power to service the Permanent Pump Station. See attached proposal from HEE, dated November 22, 2024, for scope of services. Mock•Roos will provide conceptual design information from Task 6 above and will prepare conceptual routing plans depicting the project site and any possible routings of utility power necessary for use by FPL in determining feasibility and FPL costs of distribution system improvements. Mock•Roos will review draft and final findings and report.
  
8. *Roadway Master Plan Development for South Parcel.* Prepare a Master Plan for an ultimate 4-lane typical PBC roadway (approximately 7,000 linear feet) to be located within PBC's southern 260-foot-right-of-way. There is also a 75-foot-wide FPL easement located along the north side of this right-of-way which includes existing overhead power poles and an FPL access road.
  - a) Review/incorporate existing topography, geotechnical data, and identification of potential wetland and tree impacts.
  - b) Development of up to three (3) optional typical sections for consideration by client. These sections will conform to the current Palm Beach County roadway design standards for public right-of-ways. Available storm-water treatment options will likely influence the optional typical sections. Prepare one (1) recommended horizontal alignment adjacent to the current FP&L easement, and/or the southern property boundary, for implementation.
  - c) Perform applicable conceptual level stormwater calculations for the new roadway to determine anticipated storage and treatment volumes to meet SFWMD permit requirements. Includes determining storage and pumping rates required to protect the PBC's Utility Site Parcel from runoff expected with the maximum development including uncontrolled runoff from the exterior of the proposed SFWMD reservoir up to the 100-year 3-day event with the increased rainfall recommended for resilience. Conceptual calculations will consider up to two locations for the Permanent Pump Station (at the northeast corner and the southeast corner of the AGI). Establish a conceptual minimum roadway elevation for the new route, based upon anticipated flood conditions during 5-, 10- and 25-year storm events. Emergency access to the PBC Utility Site during storm events will be considered in setting a proposed elevation.
  - d) Conceptually evaluate use of the current FP&L easement for storage and treatment of roadway runoff, subject to FP&L approval. Also consider use of, and

potential improvements to, the southern property perimeter canal for acceptance of roadway drainage.

- e) Review of the master plan analysis with County staff will culminate in the preparation of one (1) Master Plan Exhibit to be the basis of construction plans.
- f) Develop conceptual estimate of construction costs for the new roadway will be prepared utilizing historical unit price data from the Palm Beach County Engineering & Public Works Department.
- g) Meetings/Coordinate Task 8 with Client.

9. *Conceptual Cost Estimating.* Prepare and/or compile conceptual cost estimates based on the above Tasks. Meet with PBC to discuss draft estimate(s) and incorporate comments and provide final conceptual cost estimate(s).

10. Assist PBC develop and produce conceptual phasing plans and miscellaneous exhibits.

11. Attend up to five (5) in person coordination meeting with PBC staff and/or stakeholders. Perform ongoing coordination and correspondence with PBC staff, including emails, phone calls, Teams calls, etc.

12. Attend up to two (2) pre-application meetings with permitting agencies. Additional permitting activities will be conducted under a future supplement.

**PROJECT SCHEDULE**

**C-18 DRAINAGE MODIFICATIONS FOR PALM BEACH COUNTY FACILITIES AND ROAD**

Mock, Roos & Associates, Inc. PA#C4022.00

Task Description	Duration (days)	Start Date	End Date	2025											
				Feb	March	April	May	June	Jul	Aug	Sept	Oct	Nov	Dec	
Review existing documents	35	2/25/25	4/1/25	██████████											
Topographic Survey	91	3/1/25	5/31/25	██████████											
Geotechnical Investigation	91	3/1/25	5/31/25	██████████											
Wetland Survey and Delineation, Tree Survey and Protected Species Survey	75	3/1/25	5/15/25	██████████				Phase 2 (Supplement 1)							
AGI Typical Berm Section and Temporary C-18 Canal Culvert	95	2/25/25	5/31/25	██████████											
Preliminary Permanent Pump Station Sizing and Site Plan.	95	2/25/25	5/31/25	██████████											
Utility Power Feasibility	65	2/25/25	5/1/25	██████████											
Roadway Master Planning	274	4/1/25	12/31/25					██████████				██████████			
Overall Conceptual Cost Estimating	244	5/1/25	12/31/25					██████████				██████████			

**EXHIBIT B**  
**SUMMARY OF WORK EFFORT AND COST**

Name of Project: C-18 DRAINAGE MODIFICATIONS FOR PALM BEACH COUNTY FACILITIES AND ROAD

Consultant Name: Mock, Roos & Associates, Inc.

PBC Project Number:

Consultant Number: C4022.00

Date: #####

Task Description	Total Staff Hours	Staff Categories				Staff Hours By Activity	Salary Cost By Activity	Avg Rate Per Task
		Principal Engineer \$85.00	Project Manager \$72.90	Senior Engineer \$62.58	Engineer \$47.00			
<b>BASIC SERVICES</b>								
1   Review existing documents	88.0	24.0	8.0	16.0	40.0	88.0	\$5,504.48	\$ 62.55
2   Topographic Survey	40.0	8.0	8.0		24.0	40.0	\$2,391.20	\$ 59.78
3   Geotechnical Investigation	44.0	8.0	8.0	12.0	16.0	44.0	\$2,766.16	\$ 62.87
4   Wetland Survey and Delineation, Tree Survey and Protected Species Survey	52.0	8.0	8.0		36.0	52.0	\$2,955.20	\$ 56.83
5   AGI Typical Berm Section and Temporary C-18 Canal Culvert	104.0	40.0	8.0	16.0	40.0	104.0	\$6,864.48	\$ 66.00
6   Preliminary Permanent Pump Station Sizing and Site Plan.	112.0	40.0	8.0	24.0	40.0	112.0	\$7,365.12	\$ 65.76
7   Utility Power Feasibility	56.0	12.0	20.0	24.0		56.0	\$3,979.92	\$ 71.07
8   Roadway Master Planning								
a   Review Survey/Geotechnical/Wetland Data	56.0	12.0	8.0	20.0	16.0	56.0	\$3,606.80	\$ 64.41
b1   Typical Sections (up to 3)	60.0	8.0	12.0	20.0	20.0	60.0	\$3,746.40	\$ 62.44
b2   Prepare Horizontal Alignment	124.0	24.0	8.0	68.0	24.0	124.0	\$8,006.64	\$ 64.57
c   Concept SW Treatment & Storage/Min. Road Elev Calcs	186.0	48.0	20.0	48.0	70.0	186.0	\$11,831.84	\$ 63.61
d   Evaluate Use of FPL Easement & So. Canal for Storage	44.0	8.0	4.0	16.0	16.0	44.0	\$2,724.88	\$ 61.93
e   Review Analysis with PBC - Prep Final Master Plan	72.0	16.0	8.0	24.0	24.0	72.0	\$4,573.12	\$ 63.52
f   Prepare Conceptual Construction Cost Estimate	36.0	2.0	2.0	8.0	24.0	36.0	\$1,944.44	\$ 54.01
g   Meetings / Coordinate with Client	48.0	24.0	24.0			48.0	\$3,789.60	\$ 78.95
9   Overall Conceptual Cost Estimating	88.0	16.0	8.0	40.0	24.0	88.0	\$5,574.40	\$ 63.35
10   Conceptual Phasing Plans	64.0	24.0	16.0	24.0		64.0	\$4,708.32	\$ 73.57
11   Coordination Meetings/Correspondence	120.0	60.0	60.0			120.0	\$9,474.00	\$ 78.95
12   Pre-Application Meetings(s)	48.0	16.0	16.0	16.0		48.0	\$3,527.68	\$ 73.49
<b>Total Staff Hours (Basic Services)</b>	<b>1442.0</b>	<b>398.0</b>	<b>254.0</b>	<b>376.0</b>	<b>414.0</b>	<b>1442.0</b>	<b>\$95,334.68</b>	<b>\$ 66.11</b>
<b>Total Staff Cost (Basic Services)</b>		<b>\$33,830.00</b>	<b>\$18,516.60</b>	<b>\$23,530.08</b>	<b>\$19,458.00</b>			

EBO SBE Calculation for this Fee Summary	SBE \$	Non-SBE \$
MockRoos (Prime)	\$286,004.04	
Brown & Phillips, Inc.	\$149,568.00	
ESA / Environmental Sciences Associates		\$ 128,940.60
Hillers Electrical Engineering, Inc.	\$24,338.60	
WIRX Engineering, LLC	\$108,675.26	
<b>Totals</b>	<b>\$568,585.90</b>	<b>\$ 128,940.60</b>

SBE % Achieved 81.51%  
SBE % Committed 27.00%

Basic Services:	
Salary Related Costs:	\$95,334.68
Contract Multiplier:	3.00
<b>Subtotal Basic Services (Prime):</b>	<b>\$286,004.04</b>
Basic Services (Brown & Phillips, Inc.)	\$149,568.00
Basic Services (ESA / Environmental Sciences Associates)	\$128,940.60
Basic Services (Hillers Electrical Engineering, Inc.)	\$24,338.60
Basic Services (WIRX Engineering, LLC)	\$108,675.26
<b>Subtotal Basic Services (Subconsultants)</b>	<b>\$411,522.46</b>
<b>Basic Services Total:</b>	<b>\$697,526.50</b>

Reimbursables:	
Prime Consultant:	\$0.00
Permit Fees	\$0.00
Printing	\$0.00
<b>Reimbursables Total:</b>	<b>\$0.00</b>

**GRAND TOTAL ESTIMATED FEE: \$697,526.50**



November 26, 2024

Ms. Anne Capelli  
Mock Roos Consulting Engineers  
5720 Corporate Way  
West Palm Beach, FL 33407

**Re: Palm Beach County C-18 Drainage Basin Drainage Modifications Design of Access  
Roadway Alignment and Drainage Improvements Specific Purpose / Topographic Survey**

Dear Anne:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

#### SCOPE OF SERVICES

We will perform a specific purpose/topographic survey under this project and the survey work will be performed in accordance with the current Standards of Practice and Palm Beach County Roadway Design Procedures dated January 2019, and all Palm Beach County requirements. All survey work done will result in a signed and sealed survey drawing (all to be delivered to the County office for review and approval) in accordance with all applicable requirements, Roadway Design standards of 2019 (Appendix C, D & F), codes, rules and Statutes governing Surveying and Mapping.

#### I. HORIZONTAL PROJECT NETWORK CONTROL

Using the information supplied by Palm Beach County, establish boundary of previous Mecca Farms. A traverse will be run through the route and found monumentation will be tied in. The survey will be oriented to Palm Beach County horizontal control (NAD 83/11 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department. We will prepare a project network control (PNC) sheet meeting Palm Beach County standards. The Project Network Control (PNC) sheets will be part of the survey, signed, certified signed & sealed within the survey. Not a boundary survey.

The survey consists of a portion of the three (3) parcels described below:

- **East Parcel** - The East Parcel encompasses 57± acres with a north to south dimension of about 9,600 feet and a west to east dimension of about 300 feet. This parcel includes a dirt road at an elevation of about 22 feet NAVD (23.5 feet NGVD), a canal, and a water supply pipeline.
- **Water Plant** - The PBC-owned parcel containing the Water Plant encompasses 23± acres with a 5-acre detention pond. This parcel has a north to south dimension of about 1,160 feet and a west to east dimension of about 850 feet. This parcel extends south to ITID 100<sup>th</sup> Lane N. The 16.8-acre Water Plant located within this parcel has about 3 acres of impervious area that drains into the 5-acre detention pond. The crest elevation of the detention pond embankment is 22 feet NGVD. The interior of the detention pond was excavated to 19.0 feet NGVD. The finished floor (FF) elevation of the water & wastewater pump station is 23.0 feet NGVD. The road grade is 21.5 feet NGVD.

1860 Old Okeechobee Road • Suite 509 • West Palm Beach, Florida 33409  
(561) 615-3988 • Fax (561) 615-3991  
M:\PROPOSALS\BY COMPANY\Mock Roos\PBC C-18 Drainage Modification Project\PBC C-18 Drainage Modification Project Initial Phase Topographic Survey.doc



Capelli  
November 26, 2024  
Page 2

- South Parcel - The South Parcel encompasses 41± acres with a north to south dimension of about 260 feet and a west to east dimension of about 6,900 feet. The northern 75 feet of the South Parcel is occupied by an FPL Transmission line and gravel access road.

## II. PROPERTY LINE

We will review and compile any title information furnished to us for the rights-of-way (R/W), abutting properties, easements, and restrictions. No search of the Public Records will be performed by Brown & Phillips. We will review the title package and plot all right-of-way documents and easements on the Survey and alert the County of any missing R/W segments that make up the entire corridor. All gaps or overlaps will be brought to the County's attention.

## III. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed along the route using the existing Palm Beach County benchmarks (NAVD 1988). Benchmarks will be set along the route, not exceeding 600 feet apart. All benchmarks will be set outside of the proposed limits of construction.

## IV. BASELINE LAYOUT

No baseline points will be set due to the nature of the site. The points will only get damaged with regular site operations.

## V. HORIZONTAL CONTROL POINTS

The historic baseline of survey (if available) will be tied to a pair of PBCo. Horizontal Control Points at each end of the baseline. Stations and offsets and State Plane Coordinates and monumentation will be labeled at begin and end of historic baseline as well as PI's, PC's, PT's, PRC's and PCC's along the baseline not to exceed 1000 feet between control stations. All monumentation along the historic baseline will be referenced to the intervisible random project control monumentation. We propose to set twenty (20) horizontal control points.

## VI. SECTION TIES AND PROPERTY TIES

We will tie in section corners and property corners along the route to check the present alignment. We will try to locate as many corners as possible to positively establish the current rights of way. We will tie in a minimum of two (2) Palm Beach County geodetic points to meet County requirements. Subdivision corners, section corners and other existing control monumentation that will assist in the establishment of the property lines, will be located and shown on the Survey.

## VII. SPECIFIC PURPOSE / TOPOGRAPHIC SURVEY

We will obtain topographic information on the project area, collecting sufficient ground surface elevations for your use in providing cut and fill calculations meeting Palm Beach County Roadway Standards for the design of drainage improvements for Palm Beach County's land within the area noted below:

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November 26, 2024  
Page 3

- a. **East Parcel, adjacent to the AGI** - Cross-sections west to east every 100 feet, including canal banks down to the water surface at the time of the survey. The total width of the cross-section will be approximately 120 feet, extending 20 feet beyond the property line on the east and to the edge of water on the west side. The north to south distance is about 3,900 feet resulting in approximately 40 cross sections. Provide elevation of the water surface at each cross section, locations and elevations of the top of each manhole, and top of pipe elevation in up to ten manhole locations along the east embankment of the AGI. Every 500' we will perform full cross section (approximately 300' wide) soundings of the approximately 3,800-foot-long eastern perimeter canal of the AGI (which is located within the PBC East Parcel). In addition, one cross-section of the C-18 Canal's southern levee from the canal's south side to the interior toe of the AGI. Surveying in the AGI will require a boat to cross the perimeter canal.
- b. **East Parcel, south of the AGI** - Cross-sections every 100 feet, including canal banks down to the water surface at the time of the survey. The total width of the cross-sections will be approximately 300 feet, extending 20 feet beyond the property line on the east. The total north to south distance is about 5,700 feet resulting in approximately 58 cross-sections. Provide the elevation of the water surface at each cross-section. Every 500' we will perform full cross section (approximately 300' wide) soundings of the approximately 5,700 feet of canal, a 5,700 feet long survey along the western portion of this parcel to identify the location, width, and elevation of the existing drainage ditches (about 9) and to identify the location and diameter of existing culverts located within this parcel.
- c. **Water Facility Parcel** - 300 feet wide cross-sections every 100 feet within the Water Facility Parcel, along its east and south sides. Along the east side, obtain approximately ten cross sections in the 900 feet from the north property line to within 300 feet of the south property line. Cross-sections shall extend 20 feet beyond the east property line. Along the south side, obtain approximately nine cross-sections. Cross sections shall extend 20 feet beyond the south property line. Obtain elevation of the water surface at each cross-section. Survey shall include location and elevation of inlets in the detention area, the location and top of pipe elevations, location of fences in cross sections, location of guard rail(s), and the location and elevations (ground surface and top of foundation) of the two FPL poles. Every 500' we will perform full cross section (approximately 300' wide) soundings of the approximately 2,000 feet of canal along the south and east sides of the parcel.
- d. **South Parcel** - North to south cross-sections every 100 feet, including canal banks down to the water surface at the time of the survey. The total width of the cross-section will be approximately 300 feet, extending 20 feet beyond the property line on the south side. The total west to east distance is about 6,900 feet resulting in approximately 70 cross sections. Obtain the elevation of the water surface at each cross section. Provide a 6,900 feet long survey along the northern portion of this parcel to identify the location, width, and elevation of the existing drainage ditches (about 19) and to identify the location and diameter of existing culverts located within this parcel. Every 500' we will perform full cross section (approximately 300' wide) soundings of the approximately 6,900 feet of canal along the south side of the parcel. Provide the location and elevation (ground surface and top of foundation) for the FPL poles (approximately 14). The south parcel has considerable vegetation surrounding the canal.

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November 26, 2024  
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**VIII. CENTERLINE CANAL SOUNDINGS**

We will obtain a canal centerline/bottom elevation every 100' for Areas a – d in Item VII above.

**IX. GEOTECH BORINGS**

We will use the previously set control points in the area to locate forty-one (41) Standard Penetration Test (SPT) borings as supplied on plans. The points will be marked with stakes or paint marks as applicable and labeled with any designated numbers supplied. We will provide you with the ground elevation of these points.

**X. TREE SURVEY**

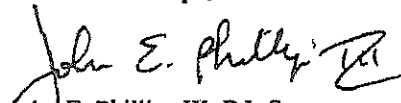
No tree locations are proposed.

**XI. CLOSURE**

A certified signed and sealed Topographic Survey (11" x 17" sheets on a 1" = 40' scale) will be prepared and delivered, to be included with the engineering plans (sheets SURX-SURXX) showing the existing right-of-way and supporting record information in addition to all improvements as outlined. We will also provide a printout of the right-of-way information in hard copy and digital format (CAD and PDF), as part of the approved survey plan submittal, showing labels referencing each document used to plot the right-of-way. We propose to provide Mock Roos and Palm Beach County Survey Section with 1 set certified, signed & sealed, of the Survey, 1 set in PDF digitally signed and CAD files in the version requested. Any additional work will be done on an hourly basis as approved by you. We will perform the scope of services for a lump sum fee of \$149,568.00 (\$148,368.00 for the survey and \$1,200.00 for boat expense), see Table 'A' for an hourly breakdown. Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Sincerely,

**Brown & Phillips, Inc.**

  
John E. Phillips III, P.L.S.  
Principal

JEP/mb



TABLE 'A'

Palm Beach County C-18 Drainage Basin Drainage Modifications  
Design of Access Roadway Alignment and Drainage Improvements

Type of Survey: Roadway Design  
Size: 3.5 miles (18,300')  
Date: November 26, 2024

TASK	SURVEY CREW (3 PERSON)	CADD TECHNICIAN	SURVEY TECHNICIAN	PROFESSIONAL LAND SURVEYOR	COMMENTS
Meetings and Coordination				8	
Horizontal Project Network Control	30		6	2	Establish control
Title Review			20	5	Review/compile furnished boundary
Vertical Project Network Control	36		6	1	Set benchmarks along corridor
Horizontal Control Points	30		4	1	Set horizontal control points and prepare PNC Sheet (20)
Section Ties	6		1		Tie in PBCo. Horizontal Control
Subdivision & Property Ties	20		3	2	Tie in adjoining property corners
100' Cross Sections	200		30	5	Cross sections @ 100' intervals (approx. 300' wide, 20' beyond PL) w/top of water elevation (±200 x-sects.), south canal is very thick with vegetation
500' Cross Sections/Soundings	80		16	2	Soundings & cross sections every 500', south canal is very thick with vegetation
Centerline Canal Sounding	110		20	4	100' intervals - all parcels
Locations and As-builts	20		2		As-built storm structures
C-18 Canal's Southern Levee Cross Section (1)	8		2		from canal's south side to the interior toe of the AGI
Locate Geotech Borings	20	3	3	1	41 SPT borings
Specific Purpose Survey		186	20	10	Prepare drawing of Specific Purpose/ Topographic Survey (±40 sheets)
Address Comments		16	10	5	
Total Hours:	560	205	143	46	
Rate/Hour	\$65.60	\$31.00	\$31.00	\$42.00	unloaded rates
Subtotal:	\$36,736.00	\$6,355.00	\$4,433.00	\$1,932.00	
Total Labor Cost (unloaded):					\$49,456.00
Multiplier:					3.00
Total Labor Cost (loaded):					\$148,368.00

<b>Other Direct Costs:</b>	<b>quantity</b>	<b>unit</b>	<b>cost/unit</b>	<b>total</b>	
Legal Description & Sketch		each	\$600.00	\$0.00	
Small Boat	20	day	\$60.00	\$1,200.00	
<b>Total Other Direct Costs:</b>					\$1,200.00
<b>TOTAL PRICE</b>					<b>\$149,568.00</b>

N  
A



505 S. Orange Avenue  
Suite 101  
Sarasota, FL 34236

www.esa360.com

December 2, 2024  
Revised December 12, 2024

Palm Beach County

**Subject:** C-18 Reservoir Project  
Environmental Permitting, Species Surveys, Tree Survey

ESA is pleased to present this Scope of Services (SOS) and estimated fee to perform environmental services to inform decisions relating to environmental permitting needs for development of three (3) areas within parcels 00414205010010020 and 00414205010010010 in Palm Beach County. ESA will review available environmental data for these areas, delineate and on-site jurisdictional wetlands/surface waters, conduct a comprehensive tree survey and conduct preliminary general listed species survey as well as more species targeted surveys for black rail and the Florida bonneted bat (*Eumops floridanus*) within the approximately 120-acre total area for the three (3) target areas within parcels 00414205010010020 and 00414205010010010.

## SCOPE OF SERVICES

### Task   Description

#### 1.0   WETLAND DELINEATION

ESA qualified biologists and environmental scientists will complete a wetland delineation for the three (3) identified project areas to determine any permitting requirements based off the survey findings. This will be a comprehensive survey covering all area within the three (3) identified parcels, totaling approximately 120-acres.

##### 1.1   DESKTOP ANALYSIS

Environmental databases and recent/historic aerial imagery will be reviewed prior to going out in the field to determine any previously identified wetlands and/or habitats within the project area. These findings will assist in field preparation and the results will be documented in the Tech Memo deliverable in task 1.3.

##### 1.2   FIELD REVIEW

A wetland delineation will be completed by ESA as requested by Palm Beach County to determine any permitting requirements or potential listed species survey requirements based off the survey findings. This will be a comprehensive survey covering the entirety of the three (3) identified project areas, totaling approximately 120-acres and data recorded include identified limits of wetlands (wetland limits to be flagged and GPS coordinates recorded), vegetation present in identified wetlands, and other observations pertaining to wetland functional analyses. It is anticipated this will be a 1-day field effort.

##### 1.3   WETLAND TECHNICAL MEMORANDUM

ESA will prepare a Wetland Survey Technical Memorandum that summarizes the findings of the wetland field review will be completed by ESA which will include maps (ArcGIS graphics) identifying the limits of all documented wetlands in the project area and all the details pertinent to functional analyses of these wetlands. The memo will summarize three alternatives for wetland impacts: (1) total wetland impacts within the 120 acres of work areas (2) the roadway area and required clearing for canal grading on both the south parcels and portions of the WUD parcel and (3) same as 2 above including the required clearing for canal grading on the east parcel. ESA biologists will coordinate with mitigation banks in the area to determine the most appropriate bank to offset impacts and provide an approximate cost of mitigation for each alternative. Final costs for mitigation will be determined during the permitting process and is not included in this scope and fee estimate.

December 12, 2024  
Page 2

## **2. TREE SURVEY**

ESA qualified biologists and environmental scientists will complete a tree survey for the three (3) identified project areas to determine any permitting requirements based off the survey findings. This will be a comprehensive survey covering all areas within the three (3) identified parcels, totaling approximately 120-acres.

### **2.1 TREE SURVEY FIELD REVIEW**

A tree survey will be completed by ESA as requested by Palm Beach County. Each tree will be identified to species and measured using diameter at breast height (DBH) and canopy height. Each tree will also be marked with a tag and the location will be identified using a submeter GPS unit. ESA will assist Palm Beach County with permitting and mitigation for removal of the trees. This will be a comprehensive survey covering all trees within the three (3) identified parcels, totaling approximately 120-acres.

### **2.2 TREE SURVEY RESULTS TECHNICAL MEMORANDUM**

ESA will prepare a Tree Survey Results Technical Memorandum that summarizes the findings of the tree survey and will include maps (ArcGIS graphics) identifying the location of all documented trees in the project area and all the species and pertinent measurement details. The information within the memo will assist ESA with coordination of the tree removal permit with Palm Beach County. The memo will summarize three alternatives for tree removal: (1) total tree removal within the 120 acres of work areas (2) the roadway area and required clearing for canal grading on both the south parcels and portions of the WUD parcel and (3) same as 2 above including the required clearing for canal grading on the east parcel. ESA biologists will coordinate with Palm Beach County to determine the approximate mitigation cost for each of the alternatives. Final costs for mitigation will be determined during the permitting process and is not included in this scope and fee estimate.

## **3.0 PROTECTED SPECIES SURVEYS**

A general species survey will be completed by ESA as requested by Palm Beach County to determine habitat types present and to identify potential utilization by listed species. This will be a comprehensive survey covering all trees within the three (3) identified parcels, totaling approximately 120-acres. Species specific surveys for the Florida bonneted bat and eastern black rail will also be conducted throughout the project area.

### **3.1 DESKTOP ANALYSIS**

Environmental databases and recent/historic aerial imagery will be reviewed prior to going out in the field to determine any previously identified wetlands and/or habitats within the project area. These findings will assist in field preparation and the results will be documented in the Tech Memo deliverable.

### **3.2 GENERAL PROTECTED SPECIES FIELD REVIEW**

A field review covering the entire approximately 120-acre project area will be completed by ESA as requested by Palm Beach County to determine the potential for listed species involvement for future development. This will be a comprehensive survey covering the entirety of the three (3) identified project areas, and field data recorded will include and any observed evidence of protected species utilization (i.e. tree cavities, guano, tracks, scat, etc.) or occurrence, and any location of interest pertaining to listed species observations in the field for the entire project area.

December 12, 2024  
Page 3

### 3.3 PROTECTED SPECIES-SPECIFIC SURVEYS

Qualified ESA biologists will conduct species specific surveys for both the Florida bonneted bat and the eastern black rail. Based upon the 2024 USFWS Survey Protocols for the bonneted bat, 6 acoustic monitoring stations area anticipated. ESA will coordinate with USFWS to obtain concurrence of the location of the monitoring station. Also, qualified ESA biologists will conduct eastern black rail call back surveys along the project area. Based upon the 2024 USFWMS Survey Protocols for the black rail 14 station are anticipated to be monitored. The protocols indicate 5 survey events must be conducted during breeding season, between February and May. Red cockaded woodpecker surveys will be conducted during the tree survey.

### 3.4 PROTECTED SPECIES SURVEY RESULTS TECHNICAL MEMORANDUM

ESA will prepare a Protected Species Survey Technical Memorandum that summarizes the findings of the general species field review which will include maps (ArcGIS graphics) identifying the limits of all documented wetlands/habitat types.

Please note that the following assumptions were used for development of the fee estimate:

1. The fee estimate does not include engineering, surveying, or geotechnical services.
2. Protected species-specific surveying, reporting and permitting, beyond the surveys explicitly outlined in the tasks above, is not included in this SOS. An additional scope and fee will be provided separately, if needed, to address impacts to protected species and/or their habitats and associated permitting.
3. The sites will be readily accessible.
4. No permitting is included in this SOS.
5. This SOS does not include permitting gopher tortoise relocation efforts, in the unlikely event that gopher tortoises or their burrows are observed during the updated survey. If gopher tortoise relocation permitting is identified as necessary for relocation of this species, ESA can prepare an SA in support of permitting through the Florida Fish and Wildlife Conservation Commission (FWC).

All permit application and other agency fees will be the client's responsibility to pay directly to permit agencies.

### FEE ESTIMATE

The services described above will be invoiced by percent complete based on a fixed fee/lump sum basis and totals \$128,940.60. This work completed will be billed on a monthly basis and will not be exceeded without prior approval from the contracting authority. We look forward to working with you on this project and if you have any questions or require additional information, please do not hesitate to call Nick Gadbois at 786-859-1121.

Sincerely,  
Environmental Science Associates

*Nicholas B Gadbois*

Nick Gadbois  
Sr. Scientist



**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project:

C-18 Reservoir

Consultant Name: Mock Roos/ESA Scheda Corporation

County:

Palm Beach County

Date: 12/02/2024; Revised 12/12/2024

Staff Classification	Total Staff Hours From "SH Summary Firm"	Chief Scientist	Senior Scientist	Environment al Scientist	Staff Classi- fication 11	Staff Classi- fication 12	Salary Cost By Activity
		\$66.82	\$46.76	\$31.24	\$0.00	\$0.00	
Environmental Permits and Species Surveys	880	130	704	44	0	0	\$42,980.20
<b>Total Staff Hours</b>	880	130	704	44	0	0	\$42,980.20
<b>Total Staff Cost</b>		\$8,686.60	\$32,919.04	\$1,374.56	\$0.00	\$0.00	\$42,980.20
<b>Multiplier 3.0 Total Staff Cost</b>		\$26,059.80	\$98,757.12	\$4,123.68	\$0.00	\$0.00	\$128,940.60

Representing	Print Name	Signature / Date
ESA Scheldt Corporation		

Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
<b>Environmental Permits and Species Surveys</b>					
Preliminary Project Research Permits	LS	1	24	24	desktop review of historic information of the area for wetlands and protected species; Preparation of Field Maps
<b>Field Work</b>					
Tree Surveys	LS	1	203	206	3 staff 5 days 10 hour days; Memo - 32 hours; Analysis for 3 alternatives for tree removal permitting - 24 hours. Hours included QA/QC of documents, Supervision and Coordination
Establish Wetland Jurisdictional Lines and Assessments	LS	1	304	304	Delineate wetland and surface waters approx 120 acres (2 scientists, 5 days, 12 hours each day), Memo including GIS figures - 48 hours; UMAMS - 32 hours; Mapping (32 hours); Wetland determination forms (36 hours); Analysis of 3 different wetland impact analysis - 36 hours; Hours included QA/QC of documents, Supervision and Coordination
Species Surveys	LS	1	265	266	General Species Survey - 2 staff 12 hour day (24 hours); Banded Bat & station - one day to deploy (2 staff - 16 hours, one day to pack up 2 staff - 12 hours); Analysis - 8 hours per station (48 hours); Memo - 42 hours; Eastern Black Owl 5 survey events - 2 staff 8 hour days, May - 40 hours; Hours included QA/QC of documents, Supervision and Coordination
Agency Verification of Wetland Data	LS	1	0	0	
<b>Complete And Submit All Required Permit Applications</b>					
Complete and Submit All Required Wetland Permit Applications	LS	1	0	0	
Complete and Submit All Required Species Permit Applications	LS	1	0	0	
Coordinate and Review Dredge and Fill Sketches	LS	1	8	8	Review Sketches from engineer
Prepare USCG Permit Application	LS	1	0	0	
Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	0	0	
Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	
Compensatory Mitigation Plan	LS	1	0	0	
Mitigation, Coordination and Meetings	LS	1	16	16	Coordination for mitigation options;
Other Environmental Permits	LS	1	0	0	
<b>Environmental Permitting and Species Surveys Hours Subtotal</b>				<b>824</b>	
Technical Meetings	LS	1	56	56	Meetings are listed below
<b>Technical Meetings Hours (Detailed Below)</b>				<b>56</b>	
<b>Total Environmental Services Hours</b>				<b>880</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
TRND	EA	4	4	16	Preparation meeting, follow-up		0
HMFS	EA	0	0	0			0
USACE	EA	4	4	16	Preapplication meeting, follow-up		0
USCG	EA	0	0	0			0
USFWS	EA	1	8	8	Species coordination		0
FFWCC	EA	0	0	0			0
EDOT	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>				<b>40</b>	<b>Subtotal Project Manager Meetings</b>		<b>0</b>
Progress Meeting	EA	4	4	16	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
<b>Total Meetings</b>				<b>56</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Project Activity 8: Environmental Permits

Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
<b>Technical Meetings</b>					
WMD	EA	4	4	16	Preapplication meeting; followup
NMFS	EA	0	0	0	
USACE	EA	4	4	16	Preapplication meeting; followup
USOG	EA	0	0	0	
USFWS	EA	1	8	8	species coordination
FPWCC	EA	0	0	0	
FDOT	EA	0	0	0	
Other Meetings	EA	0	0	0	
<b>Subtotal Technical Meetings</b>				<b>40</b>	<b>Subtotal Project Manager Meetings</b>
Progress Meetings	EA	4	4	16	PM attendance at Progress Meetings is manually entered on General Task 3
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3
<b>Total Meetings</b>				<b>56</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>

# H E E

HILLERS ELECTRICAL ENGINEERING, INC.

November 22, 2024

Ms. Anne Capelli, PE  
Senior Project Manager  
Mock•Roos and Associates, Inc.  
5720 Corporate Way  
West Palm Beach, FL. 33407

Subject: Palm Beach County C-18 Reservoir Pump Station Phase 1 Electric Service  
Coordination

Dear Anne:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide Mock•Roos and Associates, Inc. (Mock•Roos) a proposal for electrical engineering services associated with the above referenced project. The South Florida Water Management District (District) is constructing the C-18 Reservoir, a 9,500 acre-feet above ground water storage impoundment in northern Palm Beach County (County) in lands that abut the Palm Beach County Water Utilities Mecca Pump Station. On the eastern edge of the project site is a drainage canal with an existing County stormwater pump station that will require demolition and relocation as part of the project. Phase 1 of the project is to determine where to construct a replacement pump station along the same drainage canal and to further determine the feasibility, cost and routing of utility power to the new site. Detailed design of the pump station features will occur in later project phases. Our scope of services is as follows:

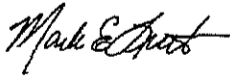
HEE will assist Mock•Roos with conceptual design approaches to the pump station and assist Mock•Roos with power utility coordination (FPL) to identify available power in the areas of the pump station and coordinate with the power utility to determine the improvements needed to facilitate three phase power to the pump station site.

HEE will prepare one-line diagram sketches and FPL motor installation request form to assist Mock•Roos in depicting the conceptual approach to each station. HEE will participate in virtual meetings with Mock•Roos, FPL and County to discuss coordination of bringing three phase power to the project site. HEE anticipates that Mock•Roos will prepare any civil site plans depicting the project site and any possible routings of utility power necessary for use by FPL in determining feasibility and costs of distribution system improvements.

Our proposed lump sum engineering services fee is: \$24,338.60

HEE wishes to thank Mock•Roos and Associates, Inc. for the opportunity to assist with this project. Please do not hesitate to call me if you have any questions regarding this proposal or any other related matter.

Sincerely,



Mark E. Luther, PE

Enclosure

E:\Business Development\Proposals\Mock Roos\PBC C18 Reservoir Pump Station\PBC C18 Reservoir Pump Station  
11222024.docx

<b>Palm Beach County C-18 Reservoir Pump Station</b> <b>HILLERS ELECTRICAL ENGINEERING, INC.</b> <b>Scope Fee Breakdown - Phase 1 Coordination</b> <b>11/22/2024</b>								
	Rate	\$251.16	\$206.31	\$164.45	\$140.53	\$155.48	\$89.70	
	Principle/ Project Manager	Professional Engineer	Lead Engineer	CADD/ Technician	Construction Coordinator	Administrative Assistant	Total	Task
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Cost
Phase 1 Conceptual Power Service Coordination	20	80		20			120	\$24,338.60
<b>Total Engineering Labor Cost</b>	<b>\$5,023.20</b>	<b>\$16,504.80</b>		<b>\$2,810.60</b>				<b>\$24,338.60</b>



November 22, 2024

**Mock Roos & Associates Inc.**  
5720 Corporate Way  
West Palm Beach, FL 33407

**Attention: Garry Gruber, P.E.**  
Email: [garry.gruber@mockroos.com](mailto:garry.gruber@mockroos.com)  
Phone: 561-722-9185

**Subject: Proposal for a Geotechnical Investigation Program  
C-18 Drainage Basin – Drainage Modifications  
Palm Beach County, Florida  
WIRX Proposal No.: 24-P-100  
Palm Beach County Project No. \_\_\_\_\_**

Dear Mr. Gruber,

WIRX Engineering, LLC (WIRX) is pleased to submit this proposal for the above-referenced project. It is our understanding that Palm Beach County (PBC) needs to design and construct modifications to the existing drainage system to provide interim drainage to PBC's critical water and wastewater facility located in the southeast corner of the site during construction of the South Florida Water Management District's (SFWMD's) C-18W Reservoir and ultimately provide long term drainage for PBC's critical water and wastewater facilities and for future roadways. This proposal presents our proposed scope of work, and establishes our estimated fee for performing the work.

#### **GENERAL SCOPE OF WORK**

WIRX will provide the Geotechnical Investigation Program as detailed in Exhibit 1 – Scope of Work. WIRX will provide all the equipment and labor needed to provide the services outlined in Exhibit 1. This work will be performed in concert with the work that WIRX is currently performing for the C-18W Reservoir project and SFWMD. Specialized amphibious drilling equipment is being mobilized the week of January 20, 2025 to perform soil borings within the Above Ground Impoundment (AGI) in the northeast portion of the site. The intent is to piggyback on the mobilization of the specialized equipment and perform the borings listed in Exhibit 1 during the same mobilization.

Prior to implementation of the work, a written Geotechnical Investigation Program will be prepared to describe the geotechnical program that will be used to gather data via field investigation and laboratory testing. Geotechnical activities will be documented in a Draft and Final Geotechnical Data Report.

**COMPENSATION & TERMS**

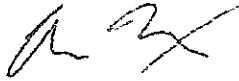
Based upon our understanding of the project, scope, schedule and interpretation of the project requirements, we propose to perform the scope of work outlined in Exhibit 1 for a fee as outlined in Attachment A – Geotechnical Estimate. Detailed breakdowns of the field explorations and laboratory testing are provided in Attachment A1. As previously discussed, this work is being performed in concert with other on-site activities; therefore, this proposal is contingent upon receiving notice to proceed prior to the mobilization of the specialized equipment. Our work will be performed in accordance with the terms and conditions of Mock Roos & Associates Inc. subconsultant agreement.

**CLOSURE**

WIRX appreciates the opportunity to provide our services for this project, and trust that the scope of work and fee presented in this proposal are clear and understandable. Should the proposal contents require any clarification or amplification, please feel free to contact us.

Sincerely,

**WIRX Engineering, LLC**



**Andrew Nixon, P.E.**  
Managing Partner  
[AndrewNixon@wirxeng.com](mailto:AndrewNixon@wirxeng.com)

Attachments: Exhibit 1 – Scope of Work  
A – Geotechnical Estimate  
A1 – Field & Laboratory Breakdown



## **EXHIBIT 1 - SCOPE OF WORK**

### **GEOTECHNICAL INVESTIGATION PROGRAM C-18 DRAINAGE BASIN – DRAINAGE MODIFICATIONS PALM BEACH COUNTY PROJECT NO. \_\_\_\_\_**

#### **Introduction**

This scope of work describes the Geotechnical Investigation Program that will be provided by WIRX to gather data via field and laboratory testing programs and reporting to support Conceptual Design of the C-18 Drainage Basin – Drainage Modifications Project (Project). This scope of work presents the amount and frequency of data collection identified as necessary and appropriate to implement the Conceptual Design required by the scope of work. Data collected from the field and laboratory investigation will be compiled by WIRX into a Geotechnical Data Report. A Geotechnical Engineering Evaluation will be conducted during the Design phase of the project.

#### **Geotechnical Investigation Scope of Work**

The geotechnical investigation services to be rendered by WIRX will include the following tasks:

- Task 1 - Site Reconnaissance & Land Clearing
- Task 2 - Prevention of Invasive & Nuisance Species Transfer
- Task 3 - Exploratory Borings (SPT)
- Task 4 - Soil Laboratory Testing
- Task 5 - Geotechnical Data Report

#### **Task 1 - Site Reconnaissance & Land Clearing**

WIRX will determine if the proposed locations noted are free of conflict with existing above ground and underground structures or utilities (water pipes, electric lines, etc.). Palm Beach County personnel will assist in this effort. If conflicts exist, WIRX will propose new locations to Palm Beach County for approval.

A written Geotechnical Investigation Program will be prepared to describe the geotechnical investigation program that will be used to gather data via field investigation, laboratory testing and reporting.

Land clearing equipment (backhoe/dozer) will be mobilized to cut paths to applicable boring locations to allow access to the drilling equipment. The ground surface in some areas of the site is submerged seasonally during the wet season. Every attempt will be made to install the borings using land-based equipment. Palm Beach County will be notified of any inaccessible boring locations.



### **Task 2 - Prevention of Invasive & Nuisance Species Transfer**

WIRX has already provided an Invasive and Nuisance Species Transfer Prevention Plan, which has been approved by SFWMD. A Decontamination Area has been constructed near the entrance to the site, where equipment such as tanks, pressure washers and cleaning supplies are stored. All equipment and vehicles will be thoroughly cleaned prior to and following work on the site to prevent the transfer of invasive and nuisance species as described in the approved plan. The cleaning equipment will be maintained in good working order throughout the duration of the field explorations.

### **Task 3 - Exploratory Borings (SPT)**

WIRX will mobilize drilling equipment and drilling crews to the Project site. Truck-mounted, mud-buggy and amphibious drilling equipment will be used as necessary and appropriate to access planned boring locations.

Borings within the onsite above-ground impoundment (AGI) could not be accessed during the previous onsite investigation for South Florida Water Management District due to the presence of thick floating vegetation in the AGI perimeter canal. The SFWMD will perform clearing of this floating vegetation to facilitate access for the amphibious drill rig. Successful access for the amphibious drill rig is contingent upon adequate clearing of vegetation and water levels in the AGI being low enough to allow the amphibious drill rig tracks to make contact with solid ground. The water level within the AGI varies seasonally. Some boring locations within the AGI may require additional land clearing to access depending on the water level within the AGI or the amount of vegetation. WIRX will notify Palm Beach County of any inaccessible boring locations and will propose a plan to adjust the boring location(s) or to perform additional vegetation clearing to complete the borings.

Boring locations will be staked in the field by the drilling crew and the horizontal coordinates of the drill location estimated by aid of a handheld GPS unit. Boring location elevation and actual horizontal coordinates will be measured by Mock-Roos's Project Surveyor.

Forty-one (41) Standard Penetration Test (SPT) borings will be performed in general accordance with ASTM D1586. Drilling shall consist of wet-rotary borings to facilitate identification of subsurface materials and the collection of samples during the performance of the Standard Penetration Test. Borings shall be backfilled with a neat cement bentonite grout upon completion.

The boring program will consist of the following as outlined 1 below:

- East Parcel Adjacent to AGI – Eight (8) SPT borings to a depth of 10 feet and two (2) SPT borings to a depth of 50 feet
- East Parcel, South of AGI – Twelve (12) SPT borings to 10 feet
- Water Facility Parcel – Five (5) SPT borings to a depth of 10 feet
- South Parcel – Fourteen (14) SPT borings to a depth of 10 feet

Figure 1 – Boring Location Map



SPT samples will be collected continuously throughout the explored depths. Groundwater levels shall be recorded for each SPT boring performed. SPT blow counts and resulting N-Value will be recorded as well as a field visual classification of the recovered materials. The soil borings will be logged in the field by a Staff Engineer.

**Task 4 – Soil Laboratory Testing**

WIRX will perform the following geotechnical laboratory testing services and analyses on the collected samples. The number of samples tested shall be appropriate to classify the various components of the subsurface soil profile and as needed to support engineering

assessment and analysis of the project embankments, canals and structures.

Laboratory Test	Testing Frequency	Number of Tests
Moisture Contents - ASTM D2216	1 per test	77
Sieve Analysis (Complete) - ASTM D6913	~ 1 per 5 borings	8
Sieve Analysis (-200 US Standard Sieve Only) – ASTM D1140	~ 1 per boring	41
Organic Content – ASTM D2974	~ 1 per 2 borings	20
Atterberg Limits - ASTM D4318	~ 1 per 5 borings	8

**Task 9 – Geotechnical Data Report**

Data collected from the field and laboratory investigation will be compiled by WIRX into a Draft Geotechnical Data Report (GDR). The report shall contain factual information and data collected during the field and laboratory work, including:

- A detailed graphical log of each test showing the following for each boring: boring location, date, driller, top elevation, depth, soil type hatching or symbol, soil/rock description (based on USCS), N-values, groundwater levels, drilling fluid loss and percentage lost, and depth (vertical scale).
- Laboratory test data presented tabulated, and a laboratory report formatted as an attachment to the Geotechnical Data Report.

WIRX shall submit a Draft Geotechnical Data Report for review. Palm Beach County shall provide comments to WIRX within the designated review period of receipt of the draft report. Following the review, WIRX shall review comments and prepare responses to technical review comments. WIRX staff shall make themselves available for a single review meeting at a designated time during the review period to respond to questions from reviewers. WIRX shall incorporate the Palm Beach County comments and finalize the GDR. A summary of comment and responses shall be included in the final report submittal.

A PDF-version of the final report, signed and sealed by a Professional Engineer in the State of Florida, is required. The GDR shall include AutoCAD drawings to present the borings, suitable for inclusion in the contract plans for the proposed construction. The drawings must be in general conformance with the Palm Beach County's CAD standards. The borings shall be shown in terms of elevations (not depths).



**Attachment A - Geotechnical Estimate  
C-18 Drainage Basin - Drainage Modifications  
Palm Beach County, Florida  
WIRX Proposal No. 24-P-100**

		Senior Geotechnical Engineer	Engineer, PE	Staff Engineer	Draft/CAAD	Total Labor Hours	Labor Costs	Field & Laboratory Costs	Total Costs
		\$177.06	\$188.02	\$129.81	\$86.55				
<b>Geotechnical Investigations</b>									
<b>Task 1 - Site Reconnaissance &amp; Land Clearing</b>									
1A	Geotech Investigation Plan	2	4	16		22	\$3,065.16	\$0.00	\$3,065.16
1B	Field Work (See Attachment A1)					0	\$0.00	\$12,234.94	\$12,234.94
	<b>Task 1 Total</b>	<b>2</b>	<b>4</b>	<b>16</b>	<b>0</b>	<b>22</b>	<b>\$3,065.16</b>	<b>\$12,234.94</b>	<b>\$15,300.10</b>
<b>Task 2 - Prevention of Invasive and Nuisance Species Transfer</b>									
2A	Field Work (See Attachment A1)					0	\$0.00	\$2,750.00	\$2,750.00
	<b>Task 2 Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0.00</b>	<b>\$2,750.00</b>	<b>\$2,750.00</b>
<b>Task 3 - Exploratory Borings</b>									
3A	Scheduling and Coordination - 2 weeks		4	16		20	\$2,711.04	\$0.00	\$2,711.04
3B	Field Exploration (See Attachment A1)					0	\$0.00	\$63,118.40	\$63,118.40
	<b>Task 3 Total</b>	<b>0</b>	<b>4</b>	<b>16</b>	<b>0</b>	<b>20</b>	<b>\$2,711.04</b>	<b>\$63,118.40</b>	<b>\$65,829.44</b>
<b>Task 4 - Laboratory Testing</b>									
4A	Coordination		2	4		6	\$836.28	\$0.00	\$836.28
4B	Laboratory Testing (See Attachment A1)					0	\$0.00	\$7,385.00	\$7,385.00
	<b>Task 4 Total</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>\$836.28</b>	<b>\$7,385.00</b>	<b>\$8,221.28</b>
<b>Task 5 - Geotechnical Data Report</b>									
5A	Draft Geotechnical Data Report	8	24	40	40	112	\$13,875.36	\$0.00	\$13,875.36
5B	Final Geotechnical Data Report	2	4	8	8	22	\$2,719.08	\$0.00	\$2,719.08
	<b>Task 5 Total</b>	<b>10</b>	<b>28</b>	<b>48</b>	<b>48</b>	<b>134</b>	<b>\$16,594.44</b>	<b>\$0.00</b>	<b>\$16,594.44</b>
<b>Geotechnical Investigations Total</b>		<b>12</b>	<b>38</b>	<b>64</b>	<b>40</b>	<b>182</b>	<b>\$29,286.92</b>	<b>\$85,468.34</b>	<b>\$114,755.26</b>



**Attachment A1- Field & Laboratory Breakdown  
C-18 Drainage Basin - Drainage Modifications  
Palm Beach County, Florida  
WIRX Proposal No. 24-P-100**

Tasks	Unit of Measure	Unit Price	Units	Total Cost	Notes	
<b>1.0 Site Reconnaissance &amp; Initial Mobilization</b>						
<b>1.1 Site Reconnaissance &amp; Underground Utility Clearance</b>						
1.1.1	Site Reconnaissance (Engineer, PE)	Hour	\$158.52	4	\$634.08	
1.1.2	Boring Layout (Technician)	Hour	\$98.07	8	\$784.56	1 Day
1.1.3	Daily Mileage for Support Truck	Mile	\$0.445	60	\$26.70	1 Day X 60 Mi/Day
<b>1.2 Limited Land Clearing - Est. 2 Days</b>						
1.2.1	Loader	Week	\$5,500.00	1	\$5,500.00	
1.2.2	Senior Engineering Technician/Operator	Hour	\$132.00	20	\$2,640.00	2 Days
1.2.3	Staff Engineer	Hour	\$129.81	20	\$2,596.20	2 Days
1.2.4	Daily Mileage for Support Truck	Mile	\$0.445	120	\$53.40	2 Days X 60 Mi/Day
				<b>Task 1 Subtotal</b>	<b>\$12,234.94</b>	
<b>2.0 Prevention of Invasive and Nuisance Species Transport</b>						
2.1	Equipment	LS	\$12,500.00	0	\$0.00	Included in SPWMD WO
2.2	Onr Crew & Engineer Time - 1 holiday	Day	\$250.00	11	\$2,750.00	Est. 11 Days
				<b>Task 2 Subtotal</b>	<b>\$2,750.00</b>	
<b>3.0 Expediting Borings (AP1)</b>						
<b>3.1 Truck &amp; ATV Accessible Borings - Est. 4 Days</b>						
<b>3.1.1 Equipment Mobilization</b>						
	Truck Rig Mobilization	MOB	\$1,500.00	1	\$1,500.00	
	Utility Vehicle	Week	\$750.00	1	\$750.00	
	Hole to Hole Move	Hole	\$125.00	33	\$4,125.00	33 Boring Locations (0.5 hr between borings)
	Daily Mileage for rig/personnel support truck	Mile	\$0.445	360	\$160.20	6 Days X 60 Mi/Day
<b>3.1.2 RPT Borings</b>						
	SPT Boring (0 - 50 Feet)	LF	\$22.00	410	\$9,020.00	
	Extra SpW Spoon (0 - 50 Feet)	Sample	\$55.00	24	\$1,320.00	3 extra samples per 10' (60' borings)
	Casing (0 - 50 Feet)	LF	\$10.00	100	\$1,000.00	50' borings only
	Borehole Grouting (0 - 50 Feet)	LF	\$7.00	410	\$2,870.00	
<b>3.1.3 Field Logging</b>						
	Staff Engineer for Data Logging	Hour	\$129.81	60	\$7,788.60	6 Days X 10 Hrs/Dy
	Mileage for Geotechnical Engineer Vehicle	Mile	\$0.445	360	\$160.20	6 Days X 60 Mi/Dy
				<b>Task 3 Subtotal</b>	<b>\$63,718.40</b>	
<b>3.2 Amphibious Accessible Borings - Est. 3 Days</b>						
<b>3.2.1 Amphibious Equipment Mobilization</b>						
3.2.2	Daily Rate - Amphibious, Drilling Crew & Materials	Day	\$8,500.00	3	\$19,500.00	
3.2.3	Support Marsh Marster/Air Boat Mobilization	MOB	\$7,500.00	0	\$0.00	Included in SPWMD WO
3.2.4	Support Equipment - Marsh Marster/Air Boat Daily Rate	Day	\$3,000.00	3	\$9,000.00	
3.2.5	Per Diem for Drilling Crew	Day	\$650.00	3	\$1,950.00	
3.2.6	Staff Engineer for Data Logging	Hour	\$129.81	30	\$3,894.30	3 Days X 10 Hrs/Dy
3.2.7	Mileage for Geotechnical Engineer Vehicle	Mile	\$0.445	180	\$80.10	3 Days X 60 Mi/Dy
				<b>Task 4 Subtotal</b>	<b>\$7,764.00</b>	
<b>4.0 Laboratory Testing</b>						
4.1	Moisture Contents	Test	\$20.00	77	\$1,540.00	
4.2	Sieve Analysis (Complete)	Test	\$110.00	8	\$880.00	
4.3	Sieve Analysis (-200 US Standard Sieve Only)	Test	\$65.00	41	\$2,665.00	
4.4	Organic Content	Test	\$70.00	20	\$1,400.00	
4.5	Atterberg Limits	Test	\$110.00	8	\$880.00	
				<b>Task 5 Subtotal</b>	<b>\$7,764.00</b>	
				<b>Field &amp; Laboratory Breakdown Total</b>	<b>\$85,856.34</b>	

**OEBO SCHEDULE 1**

C-18 Drainage Modifications for Palm Beach County Facilities and Road

SOLICITATION/PROJECT/BID NAME: \_\_\_\_\_

SOLICITATION/PROJECT/BID NO.: 20240608

SOLICITATION OPENING/SUBMITTAL DATE: 12/4/2024

COUNTY DEPARTMENT: Palm Beach County Administration

**Section A** PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT\* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Mock, Roos & Associates, Inc. ADDRESS: 5270 Corporate Way, West Palm Beach, FL33407

CONTACT PERSON: Garrytt G. Gruber, P.E. PHONE NO.: (561)683-3113 ext 293 E-MAIL: garry.gruber@mockroos.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$286,004.04

\*SMWBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

Non-SBE  MBE  WBE  SBE

**Section B** PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)				DOLLAR AMOUNT OR PERCENTAGE OF WORK					
	Non-SBE	MBE	WBE	SBE	Black	Hispanic	Women	Caucasian	Asian	Other
		Minority Business	Women Business	Small Business						
1. Mock, Roos & Associates, Inc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	\$286,004.04	_____	_____
2. Brown & Phillips, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$149,568.00	_____	_____	_____	_____	_____
3. Environmental Science Associates Corporation (ESA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	\$128,940.60	_____	_____
4. Hillers Electrical Engineering, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	\$24,338.60	_____	_____	_____	_____
5. WIRX Engineering, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$108,675.26	_____	_____	_____	_____	_____
Total					258,243.26	24,338.60	_____	\$414,944.64	_____	_____

(Please use additional sheets if necessary)

Total Bid/Offer Price \$ 697,526.50

Total Certified S/M/WBE Participation \$ 697,526.50

I hereby certify that the above information is accurate to the best of my knowledge: Garrytt G. Gruber, P.E. Senior Vice President

Name & Authorized Signature Title

- Note:**
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
  - Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OEBO Affirmative Procurement Initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
  - Modification of this form is not permitted and will be rejected upon submittal.
  - If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation.



If you have experienced or witnessed a violation of the EBO

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 20240608

SOLICITATION/PROJECT NAME: C-18 Drainage Modifications for Palm Beach County Facilities and Road

Prime Contractor: Mock, Roos & Associates, Inc. Subcontractor: Mock, Roos & Associates, Inc.

(Check box(s) that apply)

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 5/13/24-5/12/27

The undersigned affirms they are the following (select one from each column if applicable):

<u>Column 1</u>	<u>Column 2</u>	<u>Column 3</u>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	Civil Engineering				\$286,004.04

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$286,004.04

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: N/A

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Mock, Roos & Associates, Inc.

Print Name of Prime

By: [Signature]

Authorized Signature

Garrytt G. Gruber, P.E.

Print Name

Senior Vice President

Title

Date: 12/30/2024

N/A

Print Name of Subcontractor/subconsultant

By: \_\_\_\_\_

Authorized Signature

Print Name

Title

Date: \_\_\_\_\_



If you have experienced or witnessed a violation of the EBO Ordinance or would like to file a complaint, please scan the QR Code

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 20240608  
 SOLICITATION/PROJECT NAME: C-18 Drainage Modifications for Palm Beach County Facilities and Road

Prime Contractor: Mock, Roos & Associates, Inc. Subcontractor: Brown & Phillips, Inc.  
 (Check box(s) that apply)

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 1/31/22-1/30/25

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input checked="" type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	Engineering Surveying				\$149,568.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$149,568.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: N/A  
 Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Mock, Roos & Associates, Inc.  
 Print Name of Prime  
 By: [Signature]  
 Authorized Signature  
Garrytt G. Gruber, P.E.  
 Print Name  
Senior Vice President  
 Title  
 Date: 12/13/24

Brown & Phillips, Inc.  
 Print Name of Subcontractor/subconsultant  
 By: [Signature]  
 Authorized Signature  
Anthony S. Brown, PLS  
 Print Name  
CEO  
 Title  
 Date: December 12, 2024



If you have experienced or witnessed a violation of the EBO Ordinance or would like to file a complaint, please scan the QR Code



A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 20240608

SOLICITATION/PROJECT NAME: C-18 Drainage Modifications for Palm Beach County Facilities and Road

Prime Contractor: Mock, Roos & Associates, Inc. Subcontractor: Environmental Science Associates Corporation (ESA)

(Check box(s) that apply)

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	Environmental Studies				\$128,940.60

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$128,940.60

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Price or Percentage: N/A

Mock, Roos & Associates, Inc.

Print Name of Prime

By: [Signature]

Authorized Signature

Garrytt G. Gruber, P.E.

Print Name

Senior Vice President

Title

Date: \_\_\_\_\_

Environmental Science Associates Corporation (ESA)

Print Name of Subcontractor/subconsultant

By: [Signature]

Authorized Signature

Christopher Warn

Print Name

Southeast Biological Director

Title

Date: 12-19-2024



If you have experienced or witnessed a violation of the EBO

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 20240608

SOLICITATION/PROJECT NAME: C-18 Drainage Modifications for Palm Beach County Facilities and Road

Prime Contractor: Mock, Roos & Associates, Inc.

Subcontractor: Hillers Electrical Engineering, Inc.

(Check box(s) that apply)

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 10/17/24-10/16/27

The undersigned affirms they are the following (select one from each column if applicable):

**Column 1**

**Column 2**

**Column 3**

Male  Female

African-American/Black  Asian American  Caucasian American

Supplier

Hispanic American  Native American

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	Electrical Engineering				\$24,338.60

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$24,338.60

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A

Price or Percentage: N/A

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Mock, Roos & Associates, Inc.

Print Name of Prime

By: [Signature]

Authorized Signature

Garrytt G. Gruber, P.E.

Print Name

Senior Vice President

Title

Date: 12/13/24

Hillers Electrical Engineering, Inc.

Print Name of Subcontractor/subconsultant

By: [Signature]

Authorized Signature

Mark E. Luther, P.E.

Print Name

Senior Vice President

Title

Date: 12/12/2024



If you have experienced or witnessed a violation of the EBO Ordinance or would like to file a complaint, please scan the QR Code

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 20240608

SOLICITATION/PROJECT NAME: C-18 Drainage Modifications for Palm Beach County Facilities and Road

Prime Contractor: Mock, Roos & Associates, Inc. Subcontractor: WIRX Engineering, LLC

(Check box(s) that apply)

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 4/17/23-4/16/26

The undersigned affirms they are the following (select one from each column if applicable):

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input checked="" type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	<input type="checkbox"/> Caucasian American <input type="checkbox"/> Supplier

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	Geological/Geophysical Studies				\$108,675.26

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$108,675.26

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: N/A

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Mock, Roos & Associates, Inc.  
Print Name of Prime

By: [Signature]  
Authorized Signature

Garrytt G. Gruber, P.E.  
Print Name

Senior Vice President  
Title

Date: 12/13/24

WIRX Engineering, Inc.  
Print Name of Subcontractor/subconsultant

By: [Signature]  
Authorized Signature

Andrew Nixon, P.E.  
Print Name

Managing Partner  
Title

Date: 12/13/24



If you have experienced or witnessed a violation of the EBO Ordinance or would like to file a complaint, please scan the QR Code

**CONFLICT OF INTEREST DISCLOSURE FORM**

**Project:** C-18 Drainage Modifications for Palm Beach County Facilities and Road

**Project No.:** 20240608

CONSULTANT/ANNUAL CONSULTANT represents that it presently has no interest, either direct or indirect, which would or could conflict in any manner with the performance of services for the County, except as follows:

n/a

*(Attach additional sheets as needed)*


CONSULTANT/ANNUAL CONSULTANT further represents that it presently has no interest and shall acquire no interest which would conflict with performance of services solicited herein, as provided for in Chapter 112, Part III, Florida Statutes, and Section 2-441, et seq., the Palm Beach County Code of Ethics. The CONSULTANT/ANNUAL CONSULTANT further represents that no person having any such conflict of interest shall be employed for said performance of services.

CONSULTANT/ANNUAL CONSULTANT shall promptly notify the COUNTY in writing by certified mail of all potential conflicts of interest that may arise in the future through any prospective business association, interest or other circumstance which may influence or appear to influence CONSULTANT'S/ANNUAL CONSULTANT'S judgment or quality of services being provided to the County. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that CONSULTANT/ANNUAL CONSULTANT may undertake and request an opinion of the COUNTY as to whether the association, interest or circumstance would, in the opinion of the COUNTY, constitute an unacceptable conflict of interest if entered into by the CONSULTANT/ANNUAL CONSULTANT.

If, in the sole opinion of the COUNTY, the prospective business association, interest or circumstance of CONSULTANT/ANNUAL CONSULTANT would constitute an unacceptable conflict of interest to the COUNTY, the COUNTY shall so state in the notification and the CONSULTANT/ANNUAL CONSULTANT shall not enter into said association, interest or circumstance.

By signing below, CONSULTANT/ANNUAL CONSULTANT certifies that the information contained herein is true and correct and constitutes all current potential conflicts of interest which may influence or appear to influence CONSULTANT'S/ANNUAL CONSULTANT'S judgment or quality of services being provided to the County.

**THIS DISCLOSURE** is submitted by Garrytt G. Gruber, P.E. (*name*), as Senior Vice President (*title*), of Mock, Roos & Associates, Inc. (*firm*), who hereby certifies that the information stated above is true and correct. Further, it is hereby acknowledged that any misrepresentation by the CONSULTANT/ANNUAL CONSULTANT on this Disclosure is considered an unethical business practice and is grounds for sanctions against future County business with the CONSULTANT/ANNUAL CONSULTANT.

<u>Garrytt G. Gruber, P.E., Senior Vice President</u> <i>(Print Name and Title)</i>	 <i>(Signature)</i>	<u>12/5/27</u> <i>(Date)</i>
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DISCLOSURE OF OWNERSHIP INTERESTS

TO: Palm Beach County Board of County Commissioners, a political subdivision of the State of Florida

BEFORE ME, the undersigned authority, this day personally appeared Garrytt G. Gruber, hereinafter referred to as Affiant, who being by me first duly sworn, under oath, deposes and states as follows:

- 1. Affiant appears herein as:  
 an individual or  
 the Senior Vice President (title) of Mock, Roos & Associates, Inc. (firm).  
 The Affiant or the entity the Affiant represents herein seeks to do business with Palm Beach County through its Board of County Commissioners.
- 2. Affiant's address is: 5720 Corporate Way, West Palm Beach, FL 33407
- 3. Attached hereto as Exhibit A is a complete listing of the names and addresses of every person or entity having a five percent (5%) or greater interest in the Affiant's corporation, partnership, or other principal. Disclosure does not apply to nonprofit corporations, government agencies, or to an individual's or entity's interest in any entity registered with the Federal Securities Exchange Commission or registered pursuant to Chapter 517, Florida Statutes, whose interest is for sale to the general public.
- 4. Affiant acknowledges that this Affidavit is given to comply with Palm Beach County policy, and will be relied upon by Palm Beach County and the Board of County Commissioners. Affiant further acknowledges that he or she is authorized to execute this document on behalf of the entity identified in paragraph one, if any.
- 5. Affiant further states that Affiant is familiar with the nature of an oath and with the penalties provided by the laws of the State of Florida for falsely swearing to statements under oath.
- 6. Under penalty of perjury, Affiant declares that Affiant has examined this Affidavit and to the best of Affiant's knowledge and belief it is true, correct and complete.

FURTHER AFFIANT SAYETH NAUGHT.

Sign Here  
Garrytt G. Gruber, P.E., Senior Vice President, Affiant  
(Print Affiant Name)

STATE OF FLORIDA  
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me by means of  physical presence or  online notarization, this 5<sup>th</sup> day of December, 2024, by Garrytt G. Gruber, P.E. as Senior Vice President for Mock, Roos & Associates, Inc., on behalf of the corporation, who is  personally known to me or has produced \_\_\_\_\_ (type of identification) as identification.

(Stamp/Seal)



JEANETTE JEFFCOTT  
Notary Public  
State of Florida  
Comm# NH406758  
Expires 6/5/2027

Notary Signature  
Notary Public, State of Florida

Print Notary Name

Commission Number NH406758

My Commission Expires 6/5/2027



**EXHIBIT D  
PROJECT HISTORY**

**Civil Continuing Services Contract**

**R2022-0464- Mock, Roos & Associates, Inc.**

Contract API(s):		20% SBE & MBE (AA) Pref		Contract Commitment: 27%		GSC Date: 5/17/2022																	
Executed By	Project #	CSA #	Supplement #	Date Approved	Total Amount	SBE		FBC Certified SM/WBE Amounts															
						Total \$	Total %	Black		Hispanic		Women		Caucasian		Asian		Other					
								\$	%	\$	%	\$	%	\$	%	\$	%	\$	%				
Lead	2021025	1			\$ 47,341.24	\$ 20,224.20	42.72%	\$ 20,224.30	42.72%														
	20225005	2			\$ -	\$ -																	
CRC	2021804	3			\$ 94,165.20	\$ 39,864.40	41.27%	\$ 38,864.40	41.27%														
Lead	2020610	4			\$ 42,943.98	\$ -	0.00%																
BCC	2022805	5			\$ 143,599.14	\$ 33,324.39	23.20%	\$ 33,324.40	23.20%														
Lead	2021025	1	1		\$ 76,609.09	\$ 19,317.49	25.21%										\$ 19,317.49	25.21%					
BCC	2021025	1	2		\$ 102,945.55	\$ 28,292.39	27.48%						\$ 13,478.31	13.09%	\$ 14,714.08	14.29%							
Lead	2021025	1	3		\$ 65,592.16	7,382.60	11.25%									\$ 7,382.80	11.25%						
BCC	2022831	7			\$ 254,972.96	-	0.00%																
BCC	2023802	8			\$ 117,902.28	\$ 37,488.00	31.79%	\$ 37,488.00	31.79%														
Lead	2024608	9			\$ 40,849.44	\$ -	0.00%																
BCC	2024609	10			\$ 697,526.50	\$ 568,585.90	81.51%	\$ 258,243.26	37.02%	\$ 24,338.60	3.48%			\$ 286,004.04	41.00%								
<b>Project Totals</b>					<b>\$ 1,684,447.54</b>	<b>\$ 753,479.37</b>	<b>44.73%</b>	<b>\$ 388,144.36</b>	<b>23.04%</b>	<b>\$ 24,338.60</b>	<b>1.44%</b>	<b>\$ -</b>	<b>0.00%</b>	<b>\$ 299,482.35</b>	<b>17.77%</b>	<b>\$ 41,414.37</b>	<b>2.45%</b>	<b>\$ -</b>	<b>0.00%</b>				



**Palm Beach County  
Compliance Summary Report**

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00001714	Mock, Roos & Associates, Inc.		Compliant					2022050	Annual Civil Engineering Services (R2022-0464)
		Ag , XV	Continental Insurance Company	5084970362	1/1/2025	1/1/2026	Excess Liability		
		Ag , XV	American Casualty Company of Reading, Pennsylvania	5084971043	1/1/2025	1/1/2026	General Liability		
		A+g , XV	XL Specialty Insurance Company	DPR5027547	4/26/2024	4/26/2025	Professional Liability		
		Ag , XV	Valley Forge Insurance Company	5084970328	1/1/2025	1/1/2026	Workers Comp		

**Risk Profile :** Standard - Professional Services  
**Required Additional Insured :** Palm Beach County Board of County Commissioners  
**Ownership Entity :**



25-0325

BOARD OF COUNTY COMMISSIONERS  
PALM BEACH COUNTY, FLORIDA  
EXPENDITURE BUDGET TRANSFER

BGEX 123024-619

FUND 1164 ARPA Response Replacement Fund

ACCOUNT NUMBER	ACCOUNT NAME	UNIT NAME	ORIGINAL BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED as of 1/14/2024	REMAINING BALANCE
<b>EXPENDITURES</b>									
1164-760-506A-6505	Design/Eng/Mgmt- Cip Admin	Water Resources Infrastructure Capital Plan	0	0	697,527	0	697,527	0	697,527
1164-760-506B-4900	Disaster Expenses	Loxahatchee River Wetland Attenuation Feature	0	8,000,000	0	697,527	7,302,473		7,302,473
	<b>Total Expenditures</b>				<b>697,527</b>	<b>697,527</b>			

SIGNATURES

*Danny Ramdalsingh*

Initiating Department/Division

DATES

1/14/2025

*Juan M...*

Administration/Budget Department Approval

1/15/2025

OFMB Department - Posted

BY BOARD OF COUNTY COMMISSIONERS

At Meeting of: 2/4/2025

Deputy Clerk to the  
Board of County Commissioners