

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date:	February 2, 2021	<input checked="" type="checkbox"/> Consent	<input type="checkbox"/> Regular
		<input type="checkbox"/> Workshop	<input type="checkbox"/> Public Hearing
Department:	Engineering & Public Works Department		
Submitted By:	Roadway Production Division		
Submitted For:	Roadway Production Division		

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: a Work Task Order (WTO) to the Annual Civil Engineering Professional Services Contract (R2019-0717) dated June 4, 2019 (Contract) with Mock, Roos & Associates, Inc. (MRA) in the amount of \$263,251.09 for professional services for Harbor Road from the seawall to Harbor Road North (Project).

SUMMARY: Approval of this WTO will provide the design services necessary to reconstruct Harbor Road from the seawall at the south end of Harbor Road to Harbor Road North, a distance of approximately 470 linear feet. In accordance with the Contract, as amended on May 5, 2020 (R2020-0402), the Affirmative Procurement Initiative for the contract is a 20% Small Business Enterprise (SBE) participation. MRA agreed to 6.09% SBE participation for this WTO. Their cumulative SBE participation to date including this WTO is 21.06%. This Project consists of specialized work for which there are no SBE firms or team members. **This Project is included in the Five-Year Road Program. District 1 (YBH)**

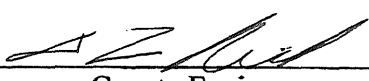

Background and Justification: On June 4, 2019, the Board of County Commissioners (BCC) approved the Contract with MRA to provide civil engineering professional services throughout the County. The fee, as detailed in **Exhibit B** of the attached WTO, has been negotiated as just and reasonable compensation as follows:

Basic Services (Lump Sum)	\$ 71,859.90	(Roadway Design, Roadway Plans, Pothole Utility Coordination, and Environmental Permitting Sketches)
Reimbursable Services (Not to Exceed)	\$ 88,795.61	(Surveys, Geotechnical and Structural)
Optional Services (Not to Exceed)	<u>\$102,595.58</u>	(Post Design, Environmental and Permits)
Total:	\$263,251.09	

After reviewing the attached WTO for professional services and finding it in proper order, the Engineering Department recommends BCC approval.

Attachments:

1. Location Map
2. Work Task Order with Exhibits A, B and C and Ebix Insurance Compliance (2)

Recommended by: YBH/TEL		7-11-2021
	County Engineer	Date
Approved By:		11/2/21
	Assistant County Administrator	Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2021	2022	2023	2024	2025
Capital Expenditures	<u>\$368,555</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Operating Costs	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
External Revenues	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Program Income (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
In-Kind Match (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
NET FISCAL IMPACT	<u>\$368,555</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
# ADDITIONAL FTE					
POSITIONS (Cumulative)					

Is Item Included in Current Budget?	Yes X	No
Does this item include the use of federal funds?	Yes	No X

Budget Account No:
Fund 3500 Dept 361 Unit 1933 Object 6505

Recommended Sources of Funds/Summary of Fiscal Impact:


Transportation Improvement Fund
Harbor Rd., Seawall to Harbor Rd. N.



New Task Authorization	
Basic Services	\$ 71,859.90
Reimbursables	\$ 88,795.61
Optional Services	\$102,595.58
Total Task Authorization	<u>\$263,251.09</u>
Staff Charges	
Roadway Production	\$ 52,651.00
Right of Way	\$ 13,163.00
Survey	\$ 13,163.00
Traffic	\$ 26,326.00
Fiscal Impact	<u>\$368,554.09</u>

C. Departmental Fiscal Review: Alfred R. Lawrence

III. REVIEW COMMENTS

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

 11/5/21

 OFMB  11/5


Contract Dev. and Control
1-7-21 TW

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

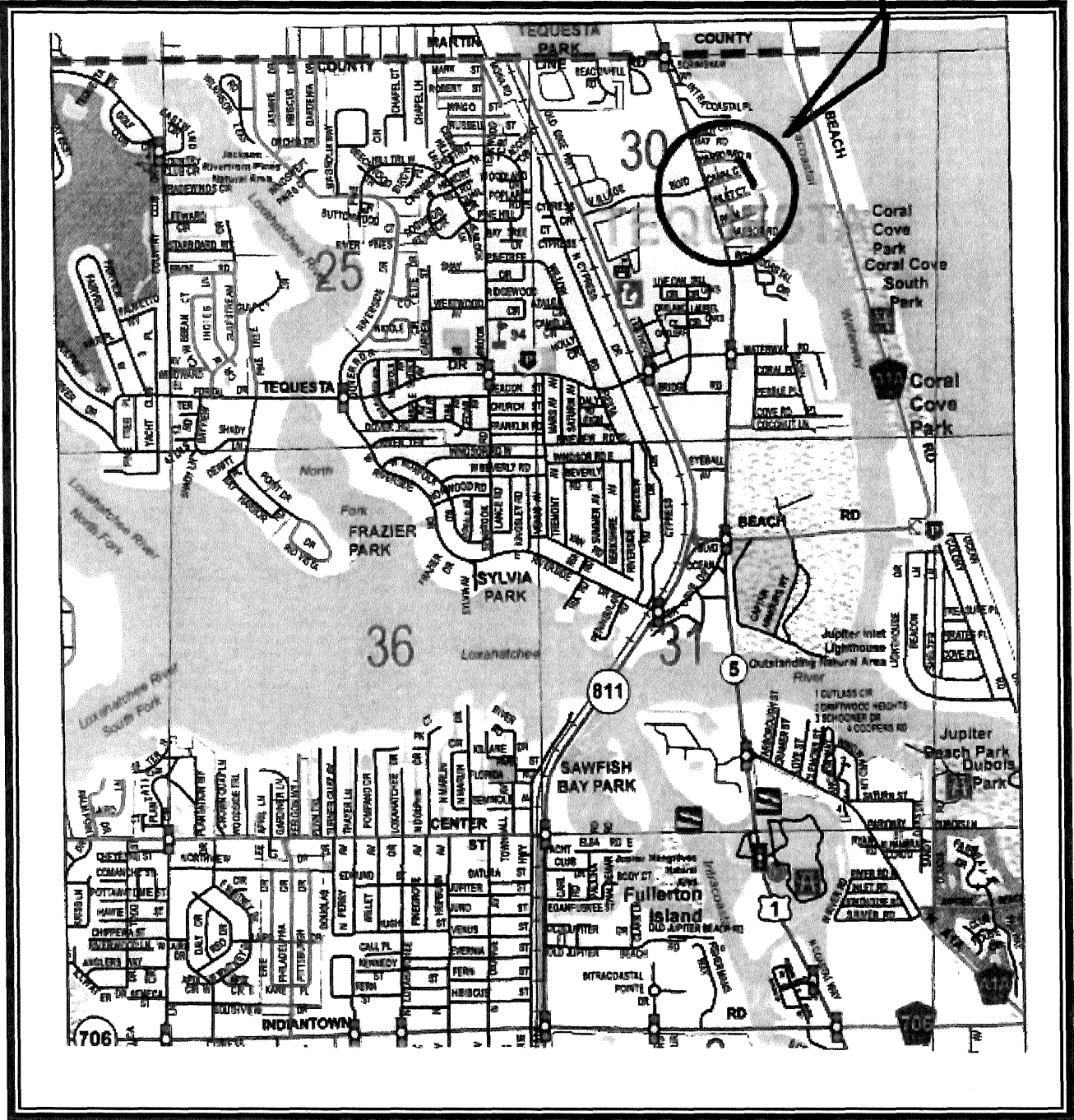
RLC 1/8/2011
Assistant County Attorney

C. Other Department Review:

Department Director

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

Harbor Road from the seawall to Harbor Road North
Palm Beach County Project No. 2020500



LOCATION MAP

**WORK TASK ORDER TO THE
ANNUAL CIVIL ENGINEERING PROFESSIONAL SERVICES CONTRACT
BY AND BETWEEN PALM BEACH COUNTY
AND MOCK, ROOS & ASSOCIATES, INC. FOR
HARBOR ROAD FROM THE SEAWALL TO HARBOR ROAD NORTH
PROJECT # 2020500**

This Work Task Order to the Contract for Annual Civil Engineering Professional Services (R2019-0717), dated June 4, 2019 (ANNUAL CONTRACT) as amended on May 5, 2020, is made and entered into the _____ day of _____, 20____, by and between Palm Beach County, a political subdivision of the State of Florida, by and through its Board of County Commissioners (COUNTY) and Mock, Roos & Associates, Inc. (CONSULTANT) (individually Party and collectively Parties)

WITNESSETH

WHEREAS, the COUNTY and CONSULTANT entered into the ANNUAL CONTRACT on a work task order basis on June 4, 2019 (R2019-0717) as amended on May 5, 2020 (R2020-0402): and

WHEREAS, the COUNTY intends to reconstruct the **Harbor Road from seawall to Harbor Road North**, Project No. **2020500** (PROJECT); and

WHEREAS, the COUNTY desires the CONSULTANT to perform design services for the PROJECT; and

WHEREAS, the CONSULTANT agrees to prepare the design plans and construction bid documents, including related documents required for the PROJECT; and

WHEREAS, the following fee has been negotiated and found to be reasonable compensation for these professional services to be performed by the CONSULTANT:

Basic Services in a lump sum fee of \$71,859.90
Reimbursable Expenses capped at \$88,795.61
Optional Services capped at \$102,595.58
Totaling **\$263,251.09**

NOW, THEREFORE, THIS INDENTURE WITNESSETH: That for and in consideration of the mutual benefits to flow from each to the other, the Parties hereto agree as follows:

The above recitals are true and correct and are incorporated herein.

The following Exhibits are attached to and made a part of this Work Task Order.

Exhibit A - Scope of Work including Work Schedule

Exhibit B - Fee Schedule

Exhibit C – OEBO Schedules 1 and 2

The COUNTY agrees to pay the CONSULTANT a fee of Two Hundred Sixty Three Thousand Two Hundred Fifty One Dollars and Nine Cents (\$263,251.09) for this Work Task Order.

REMAINDER OF PAGE LEFT BLANK INTENTIONALLY

IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida has made and executed this Work Task Order for the PROJECT, pursuant to the ANNUAL CONTRACT, as amended, on behalf of the COUNTY, and CONSULTANT has hereunto set its hand the day and year above written.

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

BY: _____
Dave Kerner, Mayor

S E A L

ATTEST:
Joseph Abruzzo, Clerk of the Circuit Court & Comptroller

BY: _____
(Deputy Clerk)

APPROVED AS TO TERMS AND CONDITIONS:

BY: *Morton L. Rose*
for Morton L. Rose, P.E.
Director of Roadway Production

APPROVED AS TO FORM & LEGAL SUFFICIENCY:

BY: *Yelizaveta B. Herman*
Yelizaveta B. Herman,
Assistant County Attorney

CONSULTANT:
Mock, Roos & Associates, Inc.

BY: _____
Garrytt G. Gruber, P.E., Senior Vice President

CORPORATE SEAL

ATTEST WITNESS:

BY: *Debra C. McWay*
(Print Name)

Debra C McWay
(Signature)

BY: *Jane E. Hayes*
(Print Name)

Jane E Hayes
(Signature)

**Corporate Resolution
of
Mock, Roos & Associates, Inc.**

Mock, Roos & Associates, Inc. is a corporation duly organized and existing under the laws of the State of Florida, having its principal place of business at 5720 Corporate Way, West Palm Beach, Florida.

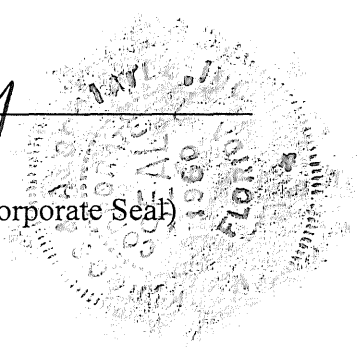
I certify that Garrytt G. Gruber, P.E., Senior Vice President, was duly authorized by Resolution of the Board of Directors of Mock, Roos & Associates, Inc. dated January 21, 2020, to execute on behalf of the Corporation client proposals or contracts, the substance of which are within the primary areas of responsibility of said Senior Vice President.

In witness whereof, I have hereunto subscribed my name and affixed the seal of the said corporation this 16th day of December, 2020.



Debra C. McCray, Secretary

(Corporate Seal)



Harbor Rd., Seawall to Harbor Rd. N.
Palm Beach County Project No. 2020500

SCOPE OF SERVICES

April 29, 2020
Revised May 6, 2020
Revised October 8, 2020
Revised November 3, 2020
Revised November 10, 2020

Sandra Miller Aspin
11/16/2020
Change in Sub Consultant
for existing SBE design
Kevin Flynn
11/18/2020

PROJECT DESCRIPTION

Mock, Roos & Associates, Inc. (Mock Roos) will provide professional engineering and related services required in connection with the proposed roadway reconstruction to the existing Harbor Road from the seawall at the south end to Harbor Road North, a distance of approximately 470 linear feet (0.1 mile). A Condition Assessment Report has been prepared by Alan Gerwig & Associates, Inc. that identifies the pertinent issues related to this improvement project. These issues include:

- Close proximity of the Yacht Harbor Canal adjacent to and partially within the 40-foot wide road right-of-way
- The presence of mangroves along the canal shoreline up to the edge of existing pavement
- The need to stabilize the shoreline with structural-grade components
- Influence of the tidal effects upon the roadway from the adjacent canal, including flooding of the surface at extremely high tides, and the apparent undermining of the subgrade and base
- The poor condition of the existing asphalt pavement, showing extensive cracking, constructed over a 6-inch base composed of sand and shell fragments
- The presence of several wooden docks along the west side of the existing road

The proposed project design will include the following elements:

1. The roadway typical section will provide two travel lanes for this residential street that dead ends at the existing seawall with a valley gutter on the west side of the road to collect and direct surface drainage. There are no shoulders, curbs or sidewalks proposed. A conceptual typical section included in the assessment report will be considered with alternative suggestions developed.
2. Reconstruction of the existing roadway (subgrade, base and pavement surface) to improve the service life of the road.
3. Regrading of the proposed roadway surface to provide positive drainage surface flow to existing or proposed catch basins.
4. Provide drainage collection and disposal systems as determined appropriate to collect storm water based on the revised road grading. These may include the

use of tidal check valves to mitigate flooding of the street and private properties.

5. Development of a shoreline stabilization system to prevent further undermining of the road base and sub-base. This may include seawalls and/or rock revetment. Consideration of increased seawall heights will be included to mitigate extreme high tidal flooding. Use of alternative pavement designs/stabilization material to help prevent future deterioration of the roadway will be evaluated
6. Removal of a portion of the existing mangroves that may conflict with the new roadway construction. Mitigation of any removed mangroves could entail the introduction of new wetland-type plants and/or seagrasses near or within the proposed revetment slopes.
7. The existing wooden docks will be addressed in regard to their removal/replacement.
8. There appears to be no underlying ERP permit for this portion of Harbor Road. Therefore, a new General Permit application to SFWMD permit will be prepared to address the pervious/impervious conditions and drainage system modifications. Permitting is expected with FDEP and PBCERM to address the removal and mitigation of mangroves and other environmentally protected vegetation. Permitting with the US Army Corps of Engineers is also expected to address the potential excavation and embankment in jurisdictional waters.
9. All proposed roadway improvements shall be within the existing right-of-way. There is a potential for Temporary Construction Easements (TCE) needed for harmonizing the new construction with the private properties along Harbor Road. Up to seven (7) legal descriptions and sketches will be provide by our surveyor if necessary.

BASIC SERVICES

Mock Roos with its subconsultants will provide the Basic Services described below, consisting of:

- Roadway Design and Plan Production – *Mock Roos & Associates, Inc. (Mock Roos)*
- Structural Engineering Services – *WGI, Inc. (WGI)*
- Geotechnical Engineering – *Pacifica Engineering Services, LLC (Pacifica)*
- Environmental Consulting Services – *Environmental Science Associates, Inc. (ESA)*
- Surveyor Services – *Brown & Phillips, Inc. (B&P)*

Mock Roos will manage the project by scheduling activities and providing coordination with subconsultants and communicating with County staff on key elements of the project. All progress submittals will be made electronically and as hardcopy (3 sets of plans). Final submittal requires 3 sets of plans, 2 of which are signed and sealed.

Engineering Surveys

The condition assessment study previously performed by Alan Gerwig & Associates includes a topographic survey performed by HSQ Group. This survey has been examined and is considered suitable for the preparation of construction plans. The CAD version of the survey will be obtained from the County to facilitate this project.

There is a potential for Temporary Construction Easements (TCE) needed for harmonizing the new construction with the private properties along Harbor Road. Up to seven (7) legal descriptions and sketches will be provided by our surveyor, B&P, if determined necessary. Please see proposal from Brown & Phillips, Inc.

Roadway Design and Plan Production

Professional services shall include the preparation of a complete set of roadway construction plans for the construction of the above described roadway improvements. The project design shall include the above described drainage facilities, roadway features, signing and pavement markings, regulatory agency permitting, utility identification and coordination. Plans will be prepared on the most recently available County aerial photography, supplemented by the topographic survey, in accordance with the following standards:

- Applicable Provisions of the Palm Beach County *Thoroughfare Road Design Procedures* (January 2019), and Traffic Standards (T-P-19).
- FDOT Design Standards dated 2019-2020
- AASHTO “*A Policy on Geometric Design of Highways and Streets*”, dated 2018
- Florida “Greenbook”, dated May 2016
- FDOT Plans Preparation Manual, dated January 2017

Scope of Services Description

1. Typical Section & Master Plan Development – This includes the preparation of alternative typical sections, including the installation of a concrete retaining wall along the west side of the roadway and reconstruction of the existing roadway. The design team will consider “out-of-the-box” solutions such as combination walls and rock revetment, along with the concept of a “living shoreline” with stabilization methods to reduce future erosion of the reconstructed roadway subgrade. Conceptual costs of the viable options will be provided, along with an evaluation of the pros and cons for each alternative.

The viable alternatives will be submitted to County staff for review and evaluation. Mock Roos will meet with staff, if requested, to discuss the merits of each alternative and reach a consensus as to the preferred plan for implementation. Based on this consensus, a final Master Plan at a scale of

1"=40', along with typical section(s) with be prepared and submitted to the County for approval. The plan will show all basic centerline horizontal geometry, limits of roadway reconstruction, lane configurations, right-of-way lines, conceptual pavement markings, and any other features to help establish the intended build-out plan for the project. An electronic version of this plan, accompanied by the typical section, will be provided to the Palm Beach County Roadway Production staff for review and comment.

2. 35% Design Plans – Following County approval of the typical section and master plan described above, the 35% plan package (scale 1"=40'H; 1"=4'V on 11x17 sheets) will be prepared, including each element identified in applicable provisions of the County's *Thoroughfare Road Design Procedures Manual*. Preliminary elements of various aspects of the project will be included in the plans package. An electronic version of the 35% Design Plans, along with an Engineer's estimate of cost, will be submitted to the County for review and comment.

2a. Utility Conflict Matrix – Following the 35% progress submittal and receipt of utility location information, Mock Roos staff will prepare a matrix identifying the locations of potential utility conflicts for the project. This matrix will be provided to the County prior to preparation of the 65% progress submittal.

3. 65% Design Plans – County staff comments from the 35% design submittal will be incorporated into the roadway plans. Applicable items in the County's *Thoroughfare Road Design Procedures Manual* for 65% progress will be addressed and included in the roadway plans. The 65% Design Plans (electronic and hard copies), along with an Engineer's estimate of cost and preliminary Utility Matrix, will be submitted to the County for review and comment.

3a. Pothole Utility Coordination – Mock Roos staff will attend the Pothole Utility Coordination Meeting scheduled by the County. At this meeting, the potential utility conflict matrix will be presented for review and discussion by the utility companies and the County. Affected utility companies will be requested to pothole their facilities. Following this meeting, and receipt of the additional pothole information, Mock Roos will amend the construction drawings accordingly, and update the potential conflict matrix. An electronic copy of this updated information will be provided to the County for its use in coordinating with the utility companies.

3b. Regulatory Agency Permitting – Following submittal of the 65% roadway, structural, and environmental plans, regulatory agency permit applications will be prepared and submitted to the following:

- South Florida Water Management District (SFWMD) – *new General Permit*
- Florida Department of Environmental Protection (FDEP) – *SWERP (if required)*

- US Army Corps of Engineers (USACE) – *Nationwide 14 and SWERP (if required)*
- Palm Beach County Department of Environmental Resources Management – *Mangrove Removal Mitigation*

Mock Roos and its subconsultants will arrange for and attend pre-application meetings with each agency staff as determined necessary. Permit application fees will be paid by Mock Roos and reimbursed by the County.

4. 96% Design Plans – County staff comments from the 65% design submittal will be incorporated into the roadway plans. Applicable items in the County's *Thoroughfare Road Design Procedures* Manual for 96% progress will be addressed and included in the roadway plans. An electronic version and hard copies of the 96% Design Plans, along with an Engineer's estimate of cost, will be submitted to the County for review and comment.

4a. Final Utility Coordination – Mock Roos staff will attend the final utility coordination meeting scheduled by the County. As a result of the pothole information provided, and the updated potential conflict matrix, Mock Roos will prepare and present a set of roadway plans identifying specific conflicts that remain to be resolved. Following this meeting, the matrix of potential conflicts will be updated with resolutions noted and provided to the County and affected utility companies. Applicable procedures established in *Appendix A* of the County's *Thoroughfare Road Design Procedures* Manual will be followed.

5. 100% Design Plans – County staff comments from the 96% design submittal will be incorporated into the roadway plans. Applicable items in the County's *Thoroughfare Road Design Procedures* Manual for 100% progress will be addressed and included in the roadway plans. The 100% Design Plans (electronic version only), along with an Engineer's estimate of cost, will be submitted to the County for review and comment.

6. Final Design Plans – County staff comments from the 100% design submittal will be incorporated into the roadway plans. Applicable items in the County's *Thoroughfare Road Design Procedures* Manual for Final Plans will be addressed and included in the roadway plans. The Final Design Plans, along with an Engineer's estimate of cost, will be submitted to the County for bidding and construction (electronic and hard copies).

Structural Engineering Services

WGI will perform structural engineering services required to construct a seawall along the west side of Harbor Road. WGI staff will initially participate in the master plan development activities to provide conceptual structural alternatives and probable costs to stabilize the shoreline between the Yacht Harbor Canal and Harbor Road.

Once a preferred alternative for the structural system to be employed is determined, WGI will prepare construction plans for a seawall. Construction documents, details, specifications and cost opinions will be prepared for the 35%, 65%, 96%, 100%, and Final design submittals. Please see the attached scope of services and fee proposal prepared by WGI, Inc.

Environmental Consulting Services

Environmental Science Associates (ESA) will provide permitting support in association with the Harbor Road project. The following tasks will be performed:

- The necessary permit research, establishment of wetland jurisdictional lines of both SFWMD and USACE. Meetings to be held with each agency to obtain verification of the wetland data.
- Prepare permit applications to SFWMD and USACE with support documents, and coordinate with each agency through one RFI response to modify applications if appropriate.
- Coordination with Mock Roos in the preparation of dredge and fill sketches, right-of-way occupancy permit applications, and Section 408 applications, as deemed necessary.
- ESA will assist the County with identifying options and acquiring mitigation for mangrove and/or seagrass impacts.

Please see the attached *Basic Services Scope* and fee proposal prepared by ESA for more detail.

Geotechnical Engineering Services

Roadway soils surveys and pavement cores have recently been performed by Nutting Engineers of Florida, Inc. for the Harbor Road project and included in the Condition Assessment Report. The data from these investigations will be included in the construction documents.

However, for design of the new seawall on the west side of Harbor Road, three (3) additional standard penetration tests will be required. Pacifica Engineering Services, LLC has prepared the attached scope of services and fee proposal to perform these tests. They will provide a report of the findings to Mock Roos and the County.

OPTIONAL SERVICES for Living Shoreline Alternative

Environmental Science Associates (ESA) will provide additional design and permitting services to support a **Living Shoreline** in association with the Harbor Road project. It is anticipated that the **Living Shoreline** concept will be considered in the Master Plan Development of the project. In the event that the County desires to proceed with implementing this option, this additional design and permitting will be necessary. The following services will be provided:

- Additional research and data collection to establish a more comprehensive bathymetric survey of the Yacht Harbor Canal. (if required by agency).
- Shoreline stabilization design & engineering in accordance with the Coastal Engineering Manual/Shoreline Protection Manual. This design will be performed with input and coordination with the team's civil and structural engineers.
- Meetings with County staff and other stakeholders.
- Provide progress submittal plans and cost estimates at each stage of the roadway plan review process.
- Prepare application for a State-wide Environmental Resource Permit (SWERP), to SFWMD, FDEP and USACE. Respond to one RFI from each agency.
- Meet with each applicable agency with drawings and exhibits to obtain approvals for the project.

Please see the attached *Optional Services Scope* and fee proposal prepared by ESA for more detail.

PROJECT SCHEDULE

The above scope of services for engineering of the proposed roadway improvements will be completed according to the attached project schedule. This schedule is dependent upon timely receipt of information from outside sources (i.e. utility companies, permit agencies, and Palm Beach County). Review times of a minimum of 20 working days for County staff at the 35%, 65%, 96%, 100% and Final progress submittals has been included in the proposed schedule.

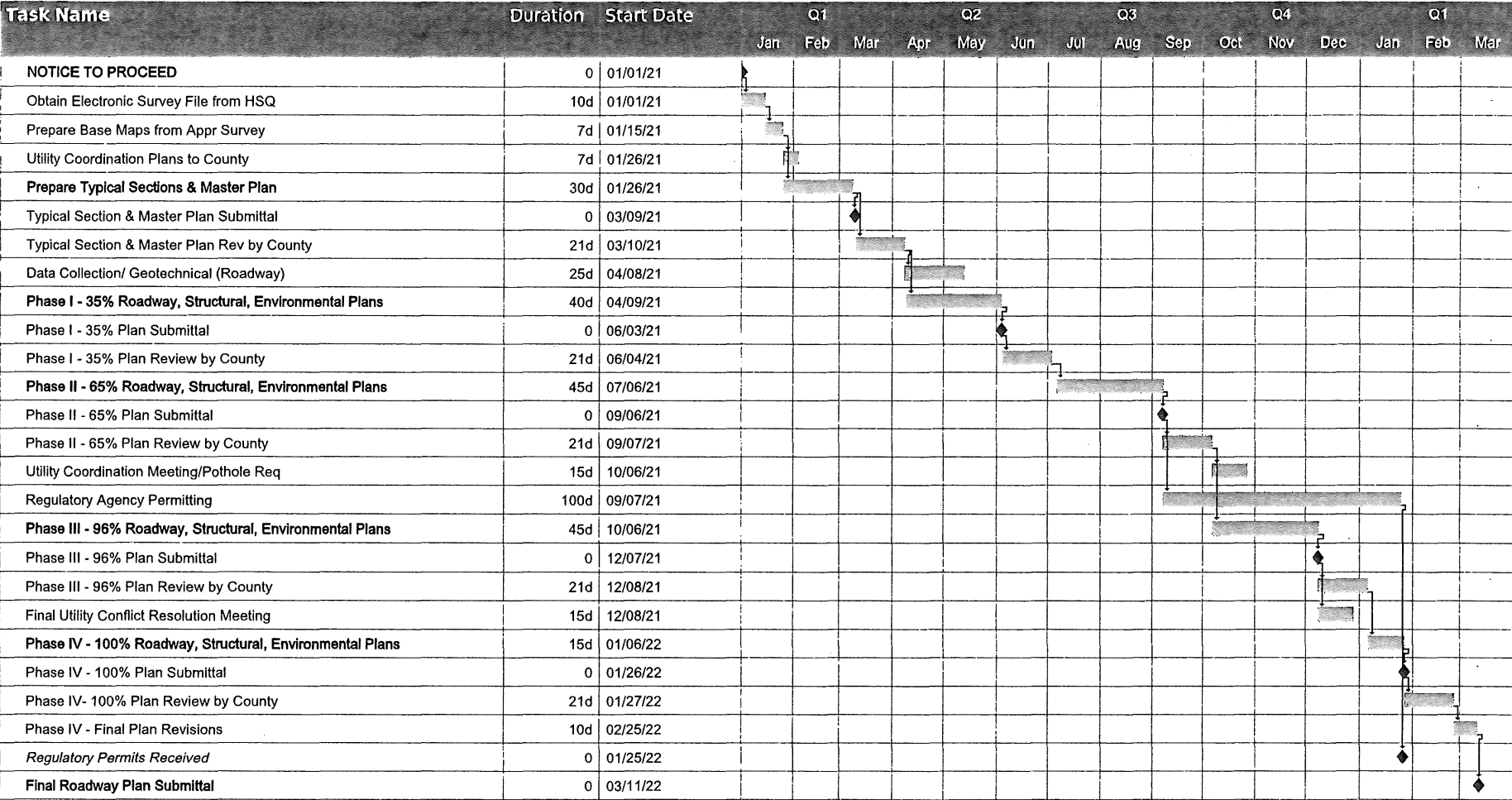
POST-DESIGN SERVICES

Engineering and related services will be provided by the project design team during pre-construction and construction activities. Mock Roos and WGI staff will be available as requested by the County to perform specific tasks. These tasks commonly include shop drawing reviews, addressing contractor RFI's, attendance at construction progress meetings, resolution of conflict issues and occasional field observations.

Should the **Living Shoreline** option be selected for implementation, ESA staff will also be available for post-design services, to ensure that the plantings and associated components of the concept are properly installed. All services under this phase of work shall be provided by the design team on an hourly basis.

HarborRoad, Seawall to Harbor Road N

Palm Beach County - Project 20200500



MOCK, ROOS & ASSOCIATES, INC.
HARBOR RD., SEAWALL TO HARBOR RD. N.
ENGINEERING DESIGN & RELATED SERVICES

Palm Beach County Engineering & Public Works Department
Estimate of Manpower Requirements & Professional Services Fee

PBC - 2020500

TASK DESCRIPTION	Principal Engineer	Project Manager	Engineer	Engineer Intern	Total Hours	Amount
ROADWAY DESIGN & PLAN PRODUCTION						
1. Typical Sections and Master Plan Development	4	16	16	8	44	\$ 2,223.36
2. 35% Design Plans (est 3 sheets + Structural + Environmental)	2	20	28	16	66	\$ 3,064.20
3. 65% Design Plans (est 5 sheets + Structural + Environmental)	6	26	32	18	82	\$ 3,966.46
3a. Pothole Utility Coordination	0	8	16	12	36	\$ 1,529.68
3b. Regulatory Agency Permitting (SFWMD, FDEP, USACE)	2	18	16	8	44	\$ 2,214.78
4. 96% Design Plans (est 6 sheets + Structural + Environmental)	4	24	34	28	90	\$ 4,079.04
4a. Final Utility Coordination	0	6	16	4	26	\$ 1,148.26
5. 100% Design Plans (est 6 sheets + Structural + Environmental)	4	6	24	16	50	\$ 2,116.26
6. Final Design Plans (est 6 sheets + Structural + Environmental)	2	2	18	12	34	\$ 1,349.42
7. Subconsultant Coordination and County Meetings	24	20	16	2	62	\$ 3,724.20
8. Dredge and Fill Sketches for Permits	0	2	8	18	28	\$ 1,003.42
	✓	✓	✓	✓		
Staff Hours	48	148	224	142	562	
Total Staff Costs	\$ 3,408.00	\$ 9,873.08	\$ 8,736.00	\$ 4,402.00		\$ 26,419.08 ✓
Raw Labor Rates	\$ 71.00	\$ 66.71	\$ 39.00	\$ 31.00		
BASIC SERVICES:	SALARY RELATED COSTS					\$ 26,419.08 ✓
	MULTIPLIER					2.72 ✓
	TOTAL MOCK•ROOS BASIC SERVICES FEE					\$ 71,859.90 ✓
	TOTAL BASIC SERVICES FEE					\$ 71,859.90 ✓
REIMBURSABLES:	Mock, Roos & Associates, Inc.					
	Out-of-Pocket Expenses (reproduction, etc.) see attached					\$ 350.00 ✓
	Estimated Permitting Fees (SFWMD)					\$ 3,500.00 ✓
	Subconsultants					
	WGI, Inc. (Structural Engineering)					\$ 29,472.57 ✓
	Pacifica Engineering Services, LLC (Geotechnical Engineering)					\$ 12,203.10 ✓
	Brown & Phillips, Inc. (Surveying - TCE legals)					\$ 3,850.00 ✓
	ESA Scheda Corporation					\$ 39,419.94 ✓
	TOTAL ESTIMATED REIMBURSABLES					\$ 88,795.61 ✓
	TOTAL ESTIMATED DESIGN SERVICES FEES					\$ 160,655.51 ✓
OPTIONAL SERVICES:	ESA Scheda Corporation					\$ 61,544.37 ✓
	Estimated Permitting Fees SFWMD/FDEP (SWERP)					\$ 5,000.00 ✓
	TOTAL ESTIMATED OPTIONAL SERVICES FEES					\$ 66,544.37 ✓
POST-DESIGN SERVICES:	Mock, Roos & Associates, Inc.(Civil Engineering) see attached					\$ 9,049.71 ✓
	WGI, Inc. (Structural Engineering)					\$ 13,371.90 ✓
	ESA Scheda Corporation					\$ 13,629.60 ✓
	TOTAL ESTIMATED POST-DESIGN SERVICES FEES					\$ 36,051.21 ✓
	TOTAL ESTIMATED PROJECT FEES					\$ 263,251.09 ✓

Harbor Rd., Seawall to Harbor Rd. N.

Out-of-Pocket Expenses
April 29, 2020
Revised October 8, 2020

Printing Fees

	<u>sets</u>	<u># sheets per set</u>	<u>total sheets</u>	<u>number submittals</u>	<u>total copies</u>	
REPRODUCTION						
11x17 copies						
Palm Beach County - Roadway	5	25	125	5	625	
Utility Coordination (electronic only)	2	5	10	2	20	
Internal Working Copies			275	1	275	
TOTAL COPIES					920	
Rate per sheet					\$ 0.25	
Total Cost for 11x17 copies					\$ 230.00	✓
8-1/2x11 copies						
Miscellaneous Correspondence	1	300	300	1	300	
Documentation/Design Notebook	3	100	300	3	900	
TOTAL SHEETS					1,200	
Rate per sheet					\$ 0.10	
Total Cost for 8-1/2x11 copies					\$ 120.00	
TOTAL REPRODUCTION COSTS					\$ 350.00	✓

POST - DESIGN SERVICES ESTIMATE

Labor Classification	Est. Hours	Labor Rate	Amount	
Principal Engineer	10	\$71.00	\$ 710.00	✓
Project Manager	10	\$66.71	\$ 667.10	✓
Engineer	<u>50</u>	\$39.00	<u>\$ 1,950.00</u>	✓
			\$ 3,327.10	✓
		multiplier	2.72	
TOTAL POST-DESIGN SERVICES:			\$ 9,049.71	✓

SFWMD

PERMIT APPLICATION FEE SCHEDULE
(Effective 8/7/2016)

Environmental Resource Permits

New Individual or Conceptual Permit (excludes Agriculture, Mitigation Bank)

- Project area < 10 acres; no wetlands or surface waters; no boat slips..... \$ 2,000
- Project area < 10 acres; < 1 acre wetland or surface water; < 10 boat slips..... \$ 3,500 ✓
- Project area < 40 acres; < 3 acres wetlands or surface waters; < 30 boat slips..... \$ 5,500
- Project area < 100 acres; < 10 acres wetlands or surface waters; < 50 boat slips..... \$ 7,500
- Project area < 640 acres; < 50 acres wetlands or surface waters; < 50 boat slips..... \$ 13,125
- Project area > 640 acres; > 50 acres wetlands or surface waters; > 50 boat slips..... \$ 25,000

New Individual Agriculture or Silviculture Permit

- Project area < 10 acres; < 1 acre wetland or surface water..... \$ 859
- Project area < 40 acres; < 3 acres wetlands or surface waters..... \$ 2,444
- Project area < 100 acres; < 10 acres wetlands or surface waters..... \$ 4,029
- Project area < 640 acres; < 50 acres wetlands or surface waters..... \$ 5,284
- Project area > 640 acres; > 50 acres wetlands or surface waters..... \$ 6,605

Individual or Conceptual Permit Major Modification (excludes Agriculture, Mitigation Banks)

- Project area < 10 acres; no wetlands or surface waters; no boat slips..... \$ 1,200
- Project area < 10 acres; < 1 acre wetland or surface waters; < 10 boat slips..... \$ 2,100
- Project area < 40 acres; < 3 acres wetlands or surface waters; < 30 boat slips..... \$ 3,300
- Project area < 100 acres; < 10 acres wetlands or surface waters; < 50 boat slips..... \$ 4,500
- Project area < 640 acres; < 50 acres wetlands or surface waters; < 50 boat slips..... \$ 7,875
- Project area > 640 acres; > 50 acres wetlands or surface waters; > 50 boat slips..... \$ 15,000

Individual Agriculture or Silviculture Permit Major Modification

- Project area < 10 acres; < 1 acre wetland or surface water..... \$ 515
- Project area < 40 acres; < 3 acres wetlands or surface waters..... \$ 1,466
- Project area < 100 acres; < 10 acres wetlands or surface waters..... \$ 2,417
- Project area < 640 acres; < 50 acres wetlands or surface waters..... \$ 3,170
- Project area > 640 acres; > 50 acres wetlands or surface waters..... \$ 3,963

Individual or Conceptual Permit Minor Modification (includes Mitigation Banks)

- Time Extension of Permit (not associated with SB/HB)..... \$ 500
- Time Extension of Permit (associated with SB/HB)..... \$ 0
- Minor errors not requiring technical review..... \$ 0
- Transfer of ownership..... \$ 0
- Transfer from construction to operation phase..... \$ 0
- All other minor modifications (Letter Modification)..... \$ 250

New Individual or Conceptual Permit for a Mitigation Bank

- Permit area < 100 acres..... \$ 7,500



March 26, 2020
Revised April 29, 2020
Revised September 29, 2020

Dennis Thomas, PE
Sr. Project Manager
Mock Roos & Associates, Inc.
5320 Corporate Way
West palm Beach FL 33411

dennis.thomas@mockroos.com

Re: Harbor Rd., Seawall to Harbor Rd. N.
Project No. 2020500

Dear Dennis,

WGI, Inc. (WGI) is pleased to provide this proposal to **Mock Roos & Associates, Inc.** (CLIENT) for professional services on the above-referenced project. Our scope of services and corresponding fees are detailed below.

PROJECT UNDERSTANDING

Harbor Road is located approximately 600 ft east of SE Federal Highway, south of Harbor Road N. The project starts at 3455 Harbor Road N. south, to the dead end located at 19660 Harbor Road. The existing road is in a state of severe deterioration. Our understanding of the issues and challenges is based on the Condition Assessment Report (dated October 29, 2019) prepared by Palm Beach County Roadway Production Division consultant Alan Gerwig & Associates, Inc.

SCOPE OF SERVICES

Reimbursable Services:

- I. **Alternative Design Coordination** **\$8,355.57** ✓
WGI will participate in a design charrette with the design team and formulate possible shoreline stabilization alternatives. A memorandum will be prepared to describe the potential alternatives, and relative costs of each. Related to the Alternative Design Coordination, we have programmed two (2) site visits to observe and photograph the existing conditions. The alternative design memorandum of the observations will contain a summary of our site observations.

- II. **Seawall Design and Construction Documents** **\$21,117.00** ✓
WGI will utilize the HSQ survey, geotechnical information provided in the Condition Assessment and a minimum of three (3) additional geotechnical soil borings (50' depth) along the proposed wall to design a cantilevered composite or steel sheet pile wall with an integral concrete cap. The seawall will be located approximately two-foot water-ward of the proposed guardrail shown on the typical cross-section developed for the Report. The extent of the proposed wall is approximately 490 feet in length. Construction documents, details, specifications and an Engineers Opinion of Probable Construction Cost will be prepared for the 35%, 65% and 96% and 100% design submittals.

Total Reimbursable Services: **\$29,472.57** ✓

Mock Roos & Associates, Inc.

March 26, 2020

Revised April 29, 2020

Revised September 29, 2020

Page 2 of 3

Optional Services

III. Post Design Services

\$13,371.90 ✓

WGI will perform the following:

1. Attend up to one (1) preconstruction meeting with CLIENT, Contractor and permitting agencies;
2. Review shop drawing submittals from the Contractor. Scope of work includes a maximum of two (2) reviews of each shop drawing, submittal;
3. Perform periodic field observations of construction for the work included in the structural plans to ensure work is completed in substantial accordance with the approved and permitted plans and specifications;
4. Respond to Contractor's Request for Information (RFI);
5. Attend pre-final and final field reviews with regulatory agencies and Contractor;

Total Optional Services

\$13,371.90 ✓

BASIS OF THIS PROPOSAL

This proposal is based on the following:

1. WGI shall be entitled to rely on the completeness and accuracy of all information provided by CLIENT. Information requested by WGI during the project will include, but may not be limited to, the building floor plans; plumbing, utilities, and roof drain plans; environmental assessments; geotechnical reports; and survey (with CAD file);
2. Engineering specifications and details will be included in the construction plans;
3. Significant scope modifications will require an amendment to this contract. WGI will submit a separate proposal for those services;
4. Coordination and design of proposed electrical, telephone, television, and gas utilities shall be completed by others. WGI will exchange drawings with these utilities for coordination purposes and to incorporate their existing and proposed features into our plans for conflict resolution and informational purposes;
5. The project will be design and permitted under one phase;
6. Services not included: Survey, Subsurface Utility Engineering, Landscape Architecture, Architectural, Irrigation, Lighting, Traffic, Environmental, and Geotechnical.

INFORMATION REQUIRED

The following additional information will be required to begin design services on this project:

1. AutoCAD and PDF files of proposed site plans/ base maps; and
2. CAD files of existing boundary survey of the subject property.

Any additional optional services requested by CLIENT will be provided in accordance with WGI's hourly fee schedule in effect at the time of service, or a fixed fee to be negotiated once a scope of service is defined.

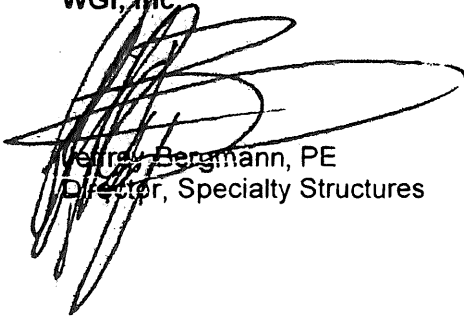


Mock Roos & Associates, Inc.
March 26, 2020
Revised April 29, 2020
Revised September 29, 2020
Page 3 of 3

PROPOSAL ACCEPTANCE

We appreciate the opportunity to be of service to **Mock Roos & Associates, Inc.** Upon acceptance of this proposal, please provide a Work Order and return an executed copy to this office.

Respectfully submitted,
WGI, Inc.

A large, stylized handwritten signature in black ink, appearing to read 'Jeffrey Bergmann', is written over the printed name and title.

Jeffrey Bergmann, PE
Director, Specialty Structures



HARBOR RD., SEAWALL TO HARBOR RD. N.
Palm Beach County Project 2020500
March 26, 2020
Revised April 292, 2020
Revised September 29, 2020

✓
\$ 72.11 ✓
\$ 56.00 ✓
\$ 44.04 ✓
\$ 35.00 ✓
\$ 33.33

TASK DESCRIPTION / DESIGN	Principal	Project Manager	Project Engineer	Engineer	CADD/Computer Technician	Total Hours	TOTAL
TASK 1							
Site Visit		6				6	\$336.00
Team Charrette Design Alternatives	4	4		8	6	22	\$992.42
Alternative Design Memorandum	1	4		8		13	\$576.11
Meetings with PBC to discuss alternatives	6	8				14	\$880.66
TASK 2							
Design, Construction Documents & Specifications	2	12	16	30	24	84	\$3,370.78
35%, 65%, 96% and 100% Submissions	4	8	12	12	16	52	\$2,218.20
EOPCC	2	4	12	12	4	34	\$1,450.02
TOTAL HOURS	19 ✓	46 ✓	40 ✓	70 ✓	50 ✓	225 ✓	✓
TOTAL FEE	\$1,370.09 ✓	\$2,576.00 ✓	\$1,761.60 ✓	\$2,450.00 ✓	\$1,666.50 ✓		\$9,824.19

Raw salary related costs \$9,824.19 ✓
Multiplier: 3.00 ✓
Total \$29,472.57 ✓

✓
\$ 72.11 ✓
\$ 56.00 ✓
\$ 44.04 ✓
\$ 35.00 ✓
\$ 33.33

TASK DESCRIPTION / POST DESIGN	Principal	Project Manager	Project Engineer	Engineer	CADD/Computer Technician	Total Hours	TOTAL
Post Design Services (Optional)	10	15	30	45		100	\$4,457.30
TOTAL HOURS	10 ✓	15 ✓	3 ✓	45 ✓	0	100 ✓	✓
TOTAL FEE	\$721.10 ✓	\$840.00 ✓	\$1,321.20 ✓	\$1,575.00 ✓	\$0.00		\$4,457.30

Raw salary related costs \$4,457.30 ✓
Multiplier: 3.00 ✓
Total \$13,371.90 ✓

\$42,844.47 ✓



October 29, 2020

Mock Roos & Associates, Inc.
5720 Corporate Way
West Palm Beach, Florida 33407
Phone: 561-722-9185
Email: garry.gruber@mockroos.com

Attention: Mr. Garry Gruber, PE | Senior Vice President

Re: Proposal for Geotechnical Engineering Services
Harbor Rd., Seawall to Harbor Road N
19660 Harbor Road North to Harbor Road North
Jupiter, FL
PACIFICA Proposal No.: 610-12011219

Dear Mr. Gruber:

In accordance with your email dated October 29, 2020, **Pacifica Engineering Services, LLC (PACIFICA)**, is pleased to submit this proposal to perform a subsurface exploration program for the above referenced project. Included herein is our understanding of the proposed development along with a scope of services, cost estimate and anticipated schedule to conduct a geotechnical engineering study.

We understand that plans for this project include the installation of new seawall system along the aforementioned length of roadway along the western side of the road. Discussions with yourself indicates that WGI will perform all engineering for the seawall system; however, some general soil parameters and other soil characteristics are needed as part of the design. No seawall engineering will be performed by our office. If any of the above information is incorrect, please notify us so we can make any necessary changes to our proposal.

We propose to perform the following services:

- Perform three (3) Standard Penetration Test (SPT) borings at the site to depths of 50 feet below grade. The SPT borings will be performed with truck-mounted machinery using rotary drilling procedures, in the approximate locations as noted by your office on the site plan forwarded to us. Samples of the in-place materials will be recovered with a standard split barrel driven with a 140-pound hammer falling 30 inches (the Standard Penetration Test in accordance with ASTM D1586).
- After completion of drilling, all boreholes will be grouted and the site generally cleaned, as required.

Underground utility clearance will be required prior to commencing the drilling of the borings. Therefore, PACIFICA will contact "Sunshine One-Call" Service to obtain underground public utility clearance. We assume that any private underground utilities existing in the exploratory area will be identified to us by others.

A geotechnical engineer will review the soil samples and representative samples will be tested for physical properties such as gradation, moisture content and organic content, if deemed necessary. The results of our work will be transmitted in a report which will specifically contain information listed below:

- 1. A plan of the site showing the location of the soil borings.
- 2. Logs of the exploratory borings will be provided, which furnish the results of the SPT sampling.
- 3. The existence of organic soils or any other soil conditions.
- 4. An anticipation of groundwater levels.

Our study can begin one day after we receive authorization to proceed. We will start drilling after underground utilities have been located and identified, which may take 2-4 business days. The field drilling should be completed in 1-2 workdays. The written report of the subsurface exploration will be available within one weeks following the field demobilization. We estimate that our study will be completed **within 20 days** from your notice to proceed.

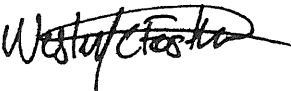
Based on our general knowledge of the subsurface conditions at the site and our understanding of your requirements, we propose to complete the subsurface exploration and geotechnical engineering evaluation described herein for an estimated fee of **\$12,203.10**. The geotechnical work proposed herein will be carried out in accordance with our General Conditions which are attached hereto.

DESCRIPTION	UNIT	# OF UNITS	UNIT RATE	TOTAL
I. FIELD EXPLORATIONS				
Mobilization of Drill Equipment (50-mile travel)	each	1.0	\$375.00	\$375.00
Senior Engineering Technician (Site Reconnaissance, Boring Layout and Underground Utility Clearance) (Raw Rate: \$31.44*2.52)	hour	10.0	\$79.23	\$792.29
Standard Penetration Tests - Truck Rig (0' - 50')	feet	150.0	\$13.00	\$1,950.00
Grout Bore Hole (0 to 50 Feet)	feet	150.0	\$6.00	\$900.00
Casing (0 to 50 Feet)	feet	150.0	\$8.00	\$1,200.00
II. AGGREGATE TESTING				
Grain size determination: Full grain size (8 sieves)	each	5.0	\$77.00	\$385.00
Grain size determination: Wash through (#200)	each	5.0	\$60.00	\$300.00
III. ENGINEERING SERVICES (MULTIPLIER: 2.52)				
Principal Engineer, P.E. (Raw Rate: \$74.05*2.52)	hour	2.0	\$186.61	\$373.21
Project Engineer (Raw Rate: \$45.06*2.52)	hour	15.0	\$113.55	\$1,703.27
Drafter / CADD (Raw Rate: \$28.35*2.52)	hour	3.0	\$71.44	\$214.33
IV. REIMBURSABLE NOT ADDRESSED IN FEE SCHEDULE				
DOT Corrosivity (If required by WGI) - (pH, sulfate, chlorides & conductivity)	test	3.0	\$170.00	\$510.00
**Maintenance of Traffic (MOT) including MOT Plan	Day	1.0	\$3,500.00	\$3,500.00
ESTIMATED GEOTECHNICAL REIMBURSABLE FEE FOR THE PROJECT				\$12,203.10

** PACIFICA will use FDOT Maintenance of Traffic (MOT) Plans Design Standards Index Series 600 when developing MOT plans. If necessary, PACIFICA will submit applicable MOT plans to WGI for approval prior to starting fieldwork.

PACIFICA appreciates your consideration of our firm for this project. We wish to note that PACIFICA recognizes the importance of meeting schedule deadlines, staying on budget and being responsive to your needs and those of your design team. We look forward to working with you on this project.

Sincerely,
Pacifica Engineering Services
Florida Certification of Authorization License No. 32328



Wesley C. Foster, P.E.
Principal Engineer





April 29, 2020
Revised September 21, 2020

Mr. Dennis Thomas
Mock, Roos & Associates, Inc.
5720 Corporate Way
West Palm Beach, FL 33407

**Re: Harbor Rd., Seawall to Harbor Rd. N. – PBCo. Project No. 2020500
Legal Descriptions and Sketches for Temporary Construction Easements (7)**

Dear Dennis:

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

I. LEGAL DESCRIPTIONS AND SKETCHES

In support of your efforts to design improvements to the referenced residential street, we will prepare legal descriptions and sketches for temporary construction easements (TCE) if necessary, for encroachments into the private properties. We understand that the TCEs will have to be shaped around the driveways, which will entail additional effort in comparison to our standard legal description and sketch. There may be seven (7) properties affected by these improvements (Block 8, Lots 1 through 5 and Block 1, Lots 15 and 16). The sketches will be based on the survey prepared by HSQ Group, Inc., and the Jupiter Heights Plat, provided by you and contained in your email dated April 23, 2020. All sketches will be consistent with the requirements of Palm Beach County and Florida Standards of Practice. We have estimated seven (7) parcels for this project at \$550.00 each totaling \$3,850.00. ✓

II. CLOSURE

We propose to provide Mock, Roos & Associates, Inc., and Palm Beach County with three (3) hard copies, signed & sealed, of each legal description and sketch, 1 set in PDF digitally signed and CAD files in the version requested. We will perform the scope of services for a **lump sum fee of \$3,850.00.** ✓ Any additional work will be done on an hourly basis as approved by you. 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.

A handwritten signature in black ink, appearing to read 'John E. Phillips III'.

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

JEP/mb

1860 Old Okeechobee Road • Suite 509 • West Palm Beach, Florida 33409
(561) 615-3988 • Fax (561) 615-3991

April 29, 2020
Revised: October 8, 2020

Mr. Dennis Thomas
Mock Roos Consulting Engineers
5720 Corporate Way
West Palm Beach, FL 33407

Re: SCOPE OF SERVICES AND ASSOCIATED FEE ESTIMATE
Harbor Rd., Seawall to Harbor Road N.
Palm Beach County Project No.: 2020500
Palm Beach County, Florida
ESA Scheda Project D201900137.00

Dear Mr. Thomas:

ESA Scheda Corporation (ESA) is pleased to present this scope of services and associated fee estimate to provide permitting support in association with the Harbor Road Improvement project (Palm Beach County Project No. 2020500). It is our understanding the project will entail reconstructing the roadway, adding to and repairing the seawall, and providing slope stabilization along the canal. Our scope of services is detailed below.

BASIC SERVICES SCOPE

8.1 Preliminary Project Research

ESA will perform preliminary project research and will be responsible for regulatory agency coordination to assure that design efforts are properly directed toward permit requirements. The research will include but should not be limited to a review of the previous permits, any supporting design and environmental documents and a review of regulatory agency databases.

ESA will research any existing easements or other restrictions that may exist both within or adjacent to the proposed project boundary. Project research will include but should not be limited to review of available: federal, state, and local permit files and databases; and local government information including county and property appraiser data. ESA will determine if any Sovereign Submerged Lands easements need to be modified or acquired. Any applicable information will be shown on the plans as appropriate.

8.2 Field Work

8.2.2 Establish Wetland Jurisdictional Lines and Assessments:

The project area is comprised of existing right-of-way (ROW) paralleled to a navigable waterway that is open to the Intracoastal Waterway. Mangroves are present along the waterway and may be impacted during construction. ESA will be responsible for determining landward extent of mangroves other surface waters as detailed in Rule Chapter 62-340, F.A.C., as ratified in Section 373.4211, F.S.; United States Army Corps of Engineers (USACE) Wetland Delineation Manual (Technical Report Y-87-1); Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (ERD/EL TR-10-20). The mangroves and surface water boundaries will be flagged and a wetland specific survey will be prepared by a registered surveyor and mapper. ESA scientists will collect all data and information necessary to determine the jurisdictional boundaries of wetlands and other surface waters as defined by the rules or regulations of each permitting agency (USACE and SFWMD) processing permit applications for the project.

ESA will prepare appropriate agency forms to obtain required permits. Forms will include the USACE "Wetland Determination Data Form – Atlantic and Gulf Coastal Plain Region and Uniform Mitigation Assessment Method forms and/or project specific data forms. As part of the permit application ESA scientists will prepare aerial maps showing the jurisdictional boundaries of wetlands and other surface waters. ESA will prepare a written assessment of the current condition and functional value of the wetlands and other surface waters. Data will be prepared in tabular form which includes the ID number for each wetland (and other surface water, if necessary) impacted, size of wetland to be impacted, type of impact, and identify any wetland (by ID number and size) within the project limits that will not be impacted by the project.

Due to the previous benthic survey being conducted 2 years prior and outside seagrass growing season, a new benthic survey will be conducted to verify the extent of the seagrass beds identified in the 2018 survey and identify any new beds. Oyster beds were observed along the project area during a recent site visit and will also be delineated during the benthic survey.

8.3 Agency Verification of Wetland Data

ESA will coordinate with both the USACE and SFWMD to obtain a jurisdictional determination as defined by the rules or regulations of each permitting agency. This will include coordinating regulatory agency field reviews, including finalization of assessments and jurisdictional determinations with applicable agencies.

8.4 Complete and Submit All Required Permit Applications

The reconstruction resulting in mangrove and surface water impacts is anticipated to require an Individual Permit from SFWMD and a Nationwide 14 from the USACE. ESA will collect all of the data and information necessary to prepare the permit support documents for the applications. ESA will

Mr. Dennis Thomas
April 29, 2020; Revised: October 8, 2020
Page 3 of 4

prepare each permit application in accordance with the rules and/or regulations of the regulatory agency responsible for issuing a specific permit and/or authorization to perform work.

8.4.1 Complete and Submit all Required Wetland Permit Applications:

ESA will prepare, complete, and submit required wetland permit (i.e. ERP, Section 404) application packages to the SFWMD and USACE. ESA will prepare and respond to one agency Requests for Additional Information (RAI), including necessary revisions to the application package.

8.5 Coordinate and Review Dredge and Fill Sketches

ESA will review Dredge and Fill Detail sheets to ensure information on the sketch(es) meet the requirements of the regulatory agencies and are appropriate for environmental permit application submittal and acquisition. ESA will also provide environmental data/information as needed to support the preparation of the Dredge and Fill sketches.

8.7 Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application

ESA will assist with the preparation of the ROW Occupancy permit application in accordance with the regulatory agency requirements if stabilization work goes outside Palm Beach County ROW. ESA will also assist with permitting coordination through Northern Palm Beach County Improvement District if needed.

8.9 Prepare USACE Section 408 Application to Alter a Civil Works Project

ESA will prepare the Section 408 (33 USC 408) application and obtaining Section 408 permission, if deemed necessary.

8.11 Mitigation Coordination and Meetings

ESA will assist Palm Beach County with acquiring mitigation for any mangrove seagrass impacts. Mitigation options for mangrove impacts include Fullerton Island and explore the County's Regional Offsite Mitigation Areas (ROMAs) for seagrass mitigation.

8.17 Technical Meetings

If any impacts to seagrass occurs ESA will coordinate Essential Fish Habitat (EFH) consultation with NOAA and USFWS. The project is within the Consultation Area/Critical Habitat area for the West Indian manatee. Section 7 consultation may be necessary with USFWS. Our team will provide recommendations for use of Standard Manatee Conditions for in-water work and manatee grates on outfall pipes.

Mr. Dennis Thomas
April 29, 2020; Revised: October 8, 2020
Page 4 of 4

FEE ESTIMATE

✓

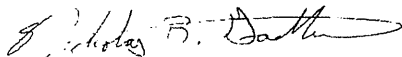
The fee estimate for the tasks listed above totals **\$39,419.94**. This will be considered a lump-sum fee estimate, which will not be exceeded without prior written authorization from the client. If additional work time is required due to the inaccuracy of these assumptions, or future changes in scope, additional fees will be billed on an hourly basis in accordance with ESA's standard billing rates. Written authorization will be obtained from the Palm Beach County and Mock Roos prior to incurring additional fees. This project will be billed monthly, in accordance with the percent complete of each task.

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

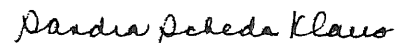
1. This scope of services does not include post-design tasks such as providing environmental oversight or construction assistance to address unforeseen environmental issues. ESA would be pleased to provide an additional scope of services to address this task if needed.
2. All required land survey, geotechnical, and engineering services will be performed by others.
3. Fee estimates were calculated based on a single proposed alignment that will be provided by Mock Roos.
4. All available electronic design files will be provided by the Client to facilitate in the preparation of supplemental figures for the environmental permit applications.
5. Application fees for the SFWMD and USACE permits are not included in this scope of services.
6. This scope and fee assumes mitigation for unavoidable impacts, if any, will be through credit purchase at a mitigation bank. Should credits at a mitigation bank not be available a separate scope and fee for mitigation design will be provided. ESA is not responsible for mitigation bank fees.
7. This scope assumes that there will be less than 0.5 acre of impact to wetlands.
8. Mitigation design or post-construction monitoring activities are not included in this scope of services.
9. This scope of services does not include incidental species surveys. Should protocol level surveys be needed, the surveys can be provided under a separate scope and fee.

Thank you for the opportunity to provide this proposal. Please contact Nicholas Gadbois at 561-865-7749 or ngadbois@esassoc.com if you have any questions or require additional information.

Sincerely,
ESA Scheda



Nicholas Gadbois, MS
Senior Environmental Scientist



Sandra Scheda Klaus, MS
Vice President

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Harbor Rd., Seawall to Harbor Road N
 County: Palm Beach County
 FPN: 2020500
 FAP No.: 1/0/1900

Consultant Name: Mock Roos/ESA Scheda Corporation
 Consultant No.: enter consultants proj. number
 Date: 04/29/2020; Revised: 10/08/2020
 Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary Firm"	Chief Scientist	Senior Scientist	Environmental Scientist	Environmental Technician	GIS Analyst	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
8. Environmental Permits, and Env. Clearances	282	28	212	28	0	14	0	0	282	\$13,140	\$46.60
Total Staff Hours	282	28	212	28	0	14	0	0	282		
Total Staff Cost		\$1,870.96	\$9,913.12	\$874.72	\$0.00	\$481.18	\$0.00	\$0.00		\$13,139.98	\$46.60
Multiplier 3.0 Total Staff Cost		\$5,612.88	\$29,739.36	\$2,624.16	\$0.00	\$1,443.54	\$0.00	\$0.00		\$39,419.94	\$139.79

Project Activity 8: Environmental Permits

Estimator:

Harbor Rd., Seawall to Harbor Road N
2020500

Representing	Print Name	Signature / Date
ESA Scheda Corporation		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
Environmental Permits and Environmental Clearances						
8.1	Preliminary Project Research	LS	1	8	8	desktop review of historic information of the area and field coordination
Permits						
8.2	Field Work					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	48	48	Delineate mangroves (2 scientists 1 days (10 hours) = 20), Benthic/Seagrass/oyster bed survey (2 scientists 1 day = 20 hours), plus survey coordination (8 hrs);
8.2.3	Species Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	16	16	Site review with USACE - 8 hours; Site review with SFWMD - 8 hours
8.4	Complete And Submit All Required Permit Applications					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	62	62	UMAMs (1 WL =2 hours, 1 seagrass = 2 hrs); Mapping (16 hours);Wetland determination forms (2 hours); ERP support document (40 hours); RAls
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	8	8	Review Sketches from engineer
8.6	Prepare USCG Permit Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	16	16	Coordination with Northern Plam Beach County (8 hours); ROW coordination (8 hours)
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	16	16	Prepare Permit Application
8.10	Compensatory Mitigation Plan	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	16	16	Coordination for mitigation options for any mangrove and seagrass impacts. Assume mitigation via PROMA.
8.12	Other Environmental Permits	LS	1	0	0	
Environmental Clearances/Reevaluations						
8.13	Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)					
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Resources	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat Impact Analysis	LS	1		0	
8.13.5	Protected Speices and Habitat Impact Analysis	LS	1	0	0	
8.14	Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	
Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal					190	✓
8.17	Technical Meetings	LS	1	64	64	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	1	10	10	
8.19	Supervision	LS	1	10	10	
Environmental Permits and Environmental Clearances Nontechnical Subtotal					84	✓

Project Activity 8: Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.20	Coordination	LS	1	8	8	
8. Environmental Permits and Environmental Clearances Total					282	✓

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
WMD	EA	4	4	16	Preapplication meeting; followup		0
NMFS	EA	1	8	8	Species coordination		0
USACE	EA	4	4	16	Preapplication meeting; followup		0
USCG	EA	0	0	0			0
USFWS	EA	1	8	8	species coordination		0
FFWCC	EA	0	0	0			0
FDOT	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				48		Subtotal Project Manager Meetings	0
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		--
Total Meetings				64		Total Project Manager Meetings (carries to Tab 3)	0

April 29, 2020
Revised: October 8, 2020

Mr. Dennis Thomas
Mock Roos Consulting Engineers
5720 Corporate Way
West Palm Beach, FL 33407

Re: SCOPE OF SERVICES AND ASSOCIATED FEE ESTIMATE
Harbor Rd., Seawall to Harbor Road N.
Seawall Repair/Slope Stabilization – Optional Services
Palm Beach County Project No.: 2020500
Palm Beach County, Florida
ESA Project D201900137.00

Dear Mr. Thomas:

ESA Scheda Corporation (ESA) is pleased to present this scope of services and associated fee estimate to provide design and permitting support for a **living shoreline** in association with the Harbor Road Seawall Repair/Slope Stabilization project (Palm Beach County Project No. 2020500). It is our understanding the project will entail reconstructing the roadway, adding to and repairing the seawall, and providing slope stabilization along the canal. Our scope of services is detailed below.

OPTIONAL SERVICES SCOPE

8.1 Preliminary Project Research

ESA staff will continue to work with Mock, Roos & Associates to acquire historical data including topographic & bathymetric survey data (or LiDAR), water quality data, aerials, oyster and seagrass maps.

Mock, Roos & Associates (MRA) will collect topographic and limited bathymetric survey data in the immediate project area. MRA will prepare a topographic survey that meets the Minimum Technical Standards as set forth in Chapter 61G17-6, Florida Administrative Code pursuant to Section 472.027 Florida Statutes. MRA will establish a minimum of 2 site benchmarks and reference their location upon the prepared drawing. The horizontal datum (coordinates) will be referenced to the Florida State Plane Coordinate System, East Zone, North American Datum of 1983/90 (NAD 83/90). The vertical datum (elevations) will be referenced to the North American Vertical Datum of 1988 (NAVD 88) and will be tied to published horizontal and vertical control points throughout the project area.

The consultant will obtain topographic and limited bathymetric survey data (to wading depth) at 50 foot transects along the shoreline of North Yacht Harbor Drive. The locations and elevations of any significant shoreline features will be collected using Real-Time Kinematic GPS or electronic total

Mr. Dennis Thomas
April 29, 2020; Revised: October 8, 2020
Page 2 of 4

station. The existing top and toe elevations as well as grade break features will be delineated as well as locating the mean high water line throughout the project area. The limited bathymetric survey will detail the rock placed at the toe of slope of the living shoreline, and extend 25-50 feet waterward to wading depth. MRA will locate large (>8" dbh) native trees or tree drip-edge for tightly packed tree groupings.

MRA will prepare and deliver 3 hard copies and 1 electronic output file of the survey for our use. The output of the electronic file is to be prepared for AutoCAD Version 2016 *.dwg file or newer. A comma delineated ASCII file of the coordinates identifying Point #, Northing, Easting, Elevation, Description should accompany the CAD file. The plan view drawings showing easements, elevations and contours over an aerial background. Cross-sections will be created indicating existing grade and existing structures.

8.11 Shoreline Stabilization Design & Engineering

Following the data collection efforts, the project design and engineering tasks will be completed. The survey data collected in Task 1 will be used to develop shoreline stabilization design alternatives. ESA will perform engineering calculations in accordance with the Coastal Engineering Manual (CEM)/Shore Protection Manual (SPM) to determine proper rock size, revetment configuration and layer structure. Florida Department of Transportation Standards will be used to rebuild the roadway shoulder. Volume calculations will be performed to determine quantities for permitting and bidding purposes. A planting plan will be developed, identifying the species, elevations and spacing of proposed vegetation.

A meeting will be held with the project stakeholders to discuss the options and select the preferred design alternative. Drawings will be prepared showing the survey data and proposed stabilization in plan and cross section view that indicate existing and proposed grades; existing and proposed structures; and existing structures to be rehabilitated. All drawings will be to scale and details pertaining to shoreline stabilization construction will be provided. Staging areas and access points will be delineated on the drawings. These drawings and calculations will provide the basis for the engineer's cost estimate.

Two (2) draft copies of the plan set (standard 24" x 36" size) and a digital file will be provided for review. This scope is based on one (1) round of comments.

Final Design Plans and Specifications will be prepared including conditions from the FDEP and USACE permits. Final Design Plans will be 22" x 34" in size, include detail drawings and will serve as the basis for the contract drawings in the final package sent to prospective bidders. Drawings will include the bathymetric and topographic survey, contour charts, cross-sections, project staging areas and the construction access corridor(s). ESA shall prepare technical specifications to support the final plan set including geotextile material performance criteria, rock density and placement requirements.

Submittals will be provided to MRA for review and comment. ESA shall revise any changes promptly and shall furnish the final drawings copies suitable for distribution to prospective bidders.

Mr. Dennis Thomas
April 29, 2020; Revised: October 8, 2020
Page 3 of 4

ESA will coordinate with MRA and the property owners during the development of the Contract Documents and make a recommendation of award. Final cost estimates will be provided as well as a bid form, which will include a detailed estimate of the quantities and work to be performed. Components of the Contract Documents that will be provided include the following:

- Construction Plan Set
- Technical Specifications
- Appendix Information (Permits, aerial photography, and any other relevant information).

MRA will coordinate the bid advertisement with ESA to determine an appropriate date for a Pre-Bid Meeting. ESA will prepare for and attend the meeting, and answer prospective Contractor inquiries or transcribe Contractor inquiries for subsequent research and respond to all meeting attendees as appropriate.

During the bidding period, ESA shall communicate frequently with County staff regarding receipt of prospective Contractor written inquiries seeking interpretation of the Contract Documents. Should ESA and the County receive such information within the stipulated time in advance of the advertised bid opening date, we will assist the County with preparation of bid addenda as appropriate by providing technical response to items. Such items include changes that may be warranted to the contract drawings, technical and supplemental general conditions or other construction-related issues as appropriate.

8.12 Other Environmental Permits

ESA will prepare a State-wide Environmental Resource Permit (SWERP) application and submit a draft copy for MRA to review. The permit application will also include supporting documents including signed and sealed design plans, signed and sealed topographic & bathymetric survey and permit figures. Upon approval, ESA will require signatures from the property owners as the applicant(s). ESA will submit the permit electronically to the Florida Department of Environmental Protection (FDEP) and the U.S. Army Corps of Engineers (USACE), and South Florida Water Management District (SFWMD). ESA has prepared for one round of requests for additional information (RAI) from the regulatory agencies. If additional RAIs are issued, ESA will discuss the level of effort required to respond to the agencies with MRA.

8.17 Technical Meetings

While data collection is underway, ESA and MRA staff will schedule pre-application meetings with the, SFWMD, USACE, and the FDEP Southeast District to discuss the regulatory requirements for permitting and constructing project elements. ESA staff will prepare figures, drawings and/or PowerPoint presentations and schedule conference calls with the regulatory agencies for the pre-application meeting(s).

Mr. Dennis Thomas
April 29, 2020; Revised: October 8, 2020
Page 4 of 4

FEE ESTIMATE

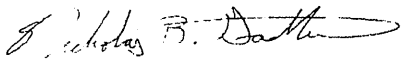
✓
The fee estimate for the tasks listed above totals **\$61,544.37**. This will be considered a lump-sum fee estimate, which will not be exceeded without prior written authorization from the client. If additional work time is required due to the inaccuracy of these assumptions, or future changes in scope, additional fees will be billed on an hourly basis in accordance with ESA's standard billing rates. Written authorization will be obtained from the Palm Beach County and Mock Roos prior to incurring additional fees. This project will be billed monthly, in accordance with the percent complete of each task.

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

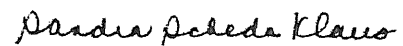
1. This scope of services does not include post-design tasks such as providing environmental oversight or construction assistance to address unforeseen environmental issues. ESA would be pleased to provide an additional scope of services to address this task if needed.
2. All required land survey, geotechnical, and engineering services will be performed by others.
3. Fee estimates were calculated based on a single proposed alignment that will be provided by Mock Roos.
4. All available electronic design files will be provided by the Client to facilitate in the preparation of supplemental figures for the environmental permit applications.
5. Application fees for the FDEP, SFWMD and USACE permits are not included in this scope of services.
6. Mitigation design or post-construction monitoring activities are not included in this scope of services.

Thank you for the opportunity to provide this proposal. Please contact Nicholas Gadbois at 561-865-7749 or ngadbois@esassoc.com if you have any questions or require additional information.

Sincerely,
ESA Scheda



Nicholas Gadbois, MS
Senior Environmental Scientist



Sandra Scheda Klaus, MS
Vice President

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project:Harbor Rd., Seawall to Harbor Rd. N

County:Palm Beach County

FPN:2020500

FAP No.:1/0/1900

Consultant Name: Mock Roos/ESA Scheda Corporation

Consultant No.: enter consultants proj. number

Date: 04/29/2020; Revised: 10/08/2020

Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary Firm"	Chief Scientist	Senior Scientist	Environmental Scientist	Environmental Technician	GIS Analyst	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$66.82 ✓	\$46.76 ✓	\$31.24 ✓	\$23.63	\$34.37 ✓	\$0.00	\$0.00			
8. Environmental Permits, and Env. Clearances	384 ✓	154	192	19	0	19	0	0	384	\$20,515	\$53.42
Total Staff Hours	384	154	192	19	0	19	0	0	384 ✓		
Total Staff Cost		\$10,290.28	\$8,977.92	\$593.56	\$0.00	\$653.03	\$0.00	\$0.00		\$20,514.79	\$53.42
Muliplier 3.0 Total Staff Costs		\$30,870.84	\$26,933.76	\$1,780.68	\$0.00	\$1,959.09	\$0.00	\$0.00	\$0.00	\$61,544.37	\$160.26
		✓	✓	✓		✓				✓	

Project Activity 8: Environmental Permits

Estimator:

Harbor Rd., Seawall to Harbor Rd. N
2020500

Representing	Print Name	Signature / Date
ESA Scheda Corporation		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
Environmental Permits and Environmental Clearances						
8.1	Preliminary Project Research	LS	1	38	38	desktop review of historic information of the area, tidal water elevations, site information
	Permits					
8.2	Field Work					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	0	0	
8.2.3	Species Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	0	0	
8.4	Complete And Submit All Required Permit Applications					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	0	0	
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1		0	
8.6	Prepare USCG Permit Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	1	1	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	
8.10	Compensatory Mitigation Plan	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	196	196	Design and Engineering, Final Design, Specifications and bidding documents
8.12	Other Environmental Permits	LS	1	64	64	Prepare permit support documents, assuming a Nationwide 54 from USACE, Environmental Resource Permit from SFWMD, and Permit from FDEP
	Environmental Clearances/Reevaluations					
8.13	Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)					
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Resources	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat Impact Analysis	LS	1		0	
8.13.5	Protected Speices and Habitat Impact Analysis	LS	1	0	0	
8.14	Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	
Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal					299	✓

Project Activity 8: Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.17	Technical Meetings	LS	1	44	44	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	1	15	15	
8.19	Supervision	LS	1	15	15	
Environmental Permits and Environmental Clearances Nontechnical Subtotal					74	✓
8.20	Coordination	LS	1	11	11	
8. Environmental Permits and Environmental Clearances Total					384	✓

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
WMD	EA	1	8	8	Preapplication meeting; followup		0
NMFS	EA	0	0	0			0
USACE	EA	1	8	8	Preapplication meeting; followup		0
USCG	EA	0	0	0			0
USFWS	EA	0	0	0			0
FFWCC	EA	0	0	0			0
FDOT	EA	0	0	0			0
Other Meetings	EA	1	8	8	FDEP Preapplication meeting; followup		0
Subtotal Technical Meetings				24	Subtotal Project Manager Meetings		0
Progress Meetings	EA	5	4	20	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		--
Total Meetings				44	Total Project Manager Meetings (carries to Tab 3)		0

Mr. Dennis Thomas
Mock Roos Consulting Engineers
5720 Corporate Way
West Palm Beach, FL 33407

April 29, 2020
Revised: October 8, 2020

Re: SCOPE OF SERVICES AND ASSOCIATED FEE ESTIMATE
Harbor Rd., Seawall to Harbor Road N.
Post Design Services – Optional Services
Palm Beach County Project No.: 2020500
Palm Beach County, Florida
ESA Scheda Project D201900137.00

Dear Mr. Thomas:

ESA Scheda Corporation (ESA) is pleased to present this scope of services and associated fee estimate to provide post design support for design in association with the Harbor Road Improvement and Seawall Repair/Slope Stabilization project (Palm Beach County Project No. 2020500). It is our understanding the project will entail reconstructing the roadway, adding to and repairing the seawall, and providing slope stabilization along the canal. Our scope of services is detailed below.

OPTIONAL SERVICES SCOPE

8.11 Mitigation and Design Services – Post Design Services

Following the project design and engineering tasks, ESA will provide support to Palm Beach County to clarify any questions pertaining to environmental impacts and living shoreline design. ESA will participate in meetings, at the request of the County, to assist with post design questions. ESA will also provide clarifications in summary memorandums and/or design plans in 11" x 17" in size.

FEE ESTIMATE

✓
The fee estimate for the tasks listed above totals **\$13,629.60**. This will be considered a lump-sum fee estimate, which will not be exceeded without prior written authorization from the client. If additional work time is required due to the inaccuracy of these assumptions, or future changes in scope, additional fees will be billed on an hourly basis in accordance with ESA's standard billing rates. Written authorization will be obtained from the Palm Beach County and Mock Roos prior to incurring additional fees. This project will be billed monthly, in accordance with the percent complete of each task.

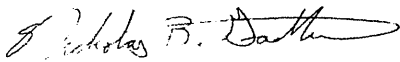
Mr. Dennis Thomas
April 29, 2020; Revised: October 8, 2020
Page 2 of 2

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

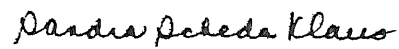
1. All required land survey, geotechnical, and engineering services will be performed by others.
2. Fee estimates were calculated based on a single proposed alignment that will be provided by Mock Roos.
3. All available electronic design files will be provided by the Client to facilitate in the preparation of supplemental figures for the environmental permit applications.
4. Offsite mitigation design other than detailed above and post-construction monitoring activities are not included in this scope of services.

Thank you for the opportunity to provide this proposal. Please contact Nicholas Gadbois at 561-865-7749 or ngadbois@esassoc.com if you have any questions or require additional information.

Sincerely,
ESA Scheda



Nicholas Gadbois, MS
Senior Environmental Scientist



Sandra Scheda Klaus, MS
Vice President

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project:Harbor Rd., Seawall to Harbor Road N

County:Palm Beach County

FPN:2020500

FAP No.:1/0/1900

Consultant Name:Mock Roos/ESA Scheda Corporation

Consultant No.:enter consultants proj. number

Date:April 29, 2020; Revised: 10/08/2020

Estimator:insert name

Staff Classification	Total Staff Hours From "SH Summary Firm"	Chief Scientist	Senior Scientist	Environmental Scientist	Environmental Technician	GIS Analyst	Staff Classi- fication 11	Staff Classi- fication 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$66.82	\$46.76	\$31.24	\$46.76	\$34.37	\$0.00	\$0.00			
8. Environmental Permits, and Env. Clearances	80	40	40	0	0	0	0	0	80	\$4,543	\$56.79
Total Staff Hours	80	40	40	0	0	0	0	0	80		
Total Staff Cost		\$2,672.80	\$1,870.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$4,543.20	\$56.79
Multiplier 3.0 Total Staff Cost		\$8,018.40	\$5,611.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$13,629.60	\$170.37

Project Activity 8: Environmental Permits

Estimator:

Harbor Rd., Seawall to Harbor Road N
2020500

Representing	Print Name	Signature / Date
ESA Scheda Corporation		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
Environmental Permits and Environmental Clearances						
8.1	Preliminary Project Research	LS	1	0	0	
Permits						
8.2	Field Work					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	0	0	
8.2.3	Species Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	0	0	
8.4	Complete And Submit All Required Permit Applications					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	0	0	
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	0	0	
8.6	Prepare USCG Permit Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	
8.10	Compensatory Mitigation Plan	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	80	80	Post Design Support
8.12	Other Environmental Permits	LS	1	0	0	
Environmental Clearances/Reevaluations						
8.13	Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)					
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Resources	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.13.5	Protected Speices and Habitat Impact Analysis	LS	1	0	0	
8.14	Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	0	0	0	

Project Activity 8: Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal					80	
8.17	Technical Meetings	LS	0	0	0	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	0	0	0	
8.19	Supervision	LS	0	0	0	
Environmental Permits and Environmental Clearances Nontechnical Subtotal					0	
8.20	Coordination	LS	0	0	0	
					0	80 ✓

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
WMD	EA	0	0	0			0
NMFS	EA	0	0	0			0
USACE	EA	0	0	0			0
USCG	EA	0	0	0			0
USFWS	EA	0	0	0			0
FFWCC	EA	0	0	0			0
FDOT	EA	0	0	0			0
Other Meetings	EA	0	0	0	FDEP Preapplication meeting: followup		0
Subtotal Technical Meetings				0	Subtotal Project Manager Meetings		0
Progress Meetings	EA	0	0	0	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		--
Total Meetings				0	Total Project Manager Meetings (carries to Tab 3)		0

40E-1.607 Permit Application Processing Fees.

A permit application processing fee is required and shall be paid to the District when certain applications are filed pursuant to District rules. An application shall not be considered complete until the appropriate application fee is submitted. These fees are assessed in order to defray the cost of evaluating, processing, monitoring, and inspecting for compliance required in connection with consideration of such applications. Fees are non-refundable in whole or part unless the activity for which an application is filed is determined by the District to be exempt or the fee submitted is determined by the District to be incorrect. Failure of any person to pay the applicable fees established herein will result in denial of an application. Activities that do not require a permit and are exempt pursuant to Rule 40E-2.051 or 40E-3.051, F.A.C., are not subject to the following permit application fees. The District’s permit application processing fees are as follows:

(1) Water Use Permit Application processing fees are in the following table:

TABLE 40E-1.607(1)
PERMIT APPLICATION PROCESSING FEES FOR
WATER USE PERMIT APPLICATIONS
REVIEWED PURSUANT TO CHAPTERS 40E-2 AND 40E-20, F.A.C.

Fee amounts shall apply to applications for new permits, permit modifications, and permit renewals, except as noted.

Category	Amount
Individual Public Water Supply with a duration less than 20 years	
Maximum monthly allocation	
Greater than 15 million gallons per month (mgm) through 30 mgm	\$2,700
Greater than 30 mgm through 300 mgm	\$5,500
Greater than 300 mgm	\$7,000
Individual Public Water Supply with a duration of 20 years	
Maximum monthly allocation	
Greater than 15 million gallons per month (mgm) through 30 mgm	\$4,200
Greater than 30 mgm through 300 mgm	\$8,500
Greater than 300 mgm	\$11,500
Individual Irrigation with a duration less than 20 years	\$1,000
Individual Irrigation with a duration of 20 years	
Maximum monthly allocation	
Greater than 15 mgm through 30 mgm	\$1,600
Greater than 30 mgm through 300 mgm	\$3,400
Greater than 300 mgm	\$5,600
Individual Mining (Dewatering)	
Maximum monthly allocation	
Greater than 15 mgm through 30 mgm	\$1,800
Greater than 30 mgm through 300 mgm	\$3,250
Greater than 300 mgm	\$4,000
Individual Industrial with a duration less than 20 years	
Maximum monthly allocation	
Greater than 15 mgm through 30 mgm	\$1,400
Greater than 30 mgm through 300 mgm	\$2,750
Greater than 300 mgm	\$3,500

Individual Industrial with a duration of 20 years	
Maximum monthly allocation	
Greater than 15 mgm through 30 mgm	\$2,000
Greater than 30 mgm through 300 mgm	\$3,650
Greater than 300 mgm	\$5,600
Individual Diversion and Impoundment with a duration less than 20 years	
Maximum monthly allocation	
Greater than 15 mgm through 30 mgm	\$1,400
Greater than 30 mgm through 300 mgm	\$2,750
Greater than 300 mgm	\$3,500
Individual Diversion and Impoundment with a duration of 20 years	
Maximum monthly allocation	
Greater than 15 mgm through 30 mgm	\$2,000
Greater than 30 mgm through 300 mgm	\$3,950
Greater than 300 mgm	\$6,200
Independent Secondary User of a Diversion and Impoundment with a duration of 20 years	
Maximum monthly allocation	
Greater than 15 mgm through 30 mgm	\$1,000
Greater than 30 mgm through 300 mgm	\$2,000
Greater than 300 mgm	\$3,200
General Standard Water Use Permit	
Maximum monthly allocation through Aquifer Storage and Recovery	
Less than 3 million gallons per month (mgm) (Minor)	\$350
Greater than 3 mgm through 15 mgm (Major)	\$1,000
Short-term Dewatering	\$500
Aquifer Storage and Recovery:	
(cost added to the applicable use type listed above)	\$1,000
Permit Transfer to Another Entity Pursuant to Rules 40E-0.107 and 40E-2.351, F.A.C.	\$300
Letter Modification to Individual Permit	no fee
Letter Modification to General Permit	no fee

(2) Water Well Construction Permit Application processing fees are in the following table:

TABLE 40E-1.607(2)
PERMIT APPLICATION PROCESSING FEES FOR
WATER WELL CONSTRUCTION PERMIT APPLICATIONS
REVIEWED PURSUANT TO CHAPTER 40E-3, F.A.C.

Category	Amount
Water Well Construction	\$100
Water Well Abandonment	no fee

(3)(a) Environmental Resource Permit Application processing fees are in the following table:

TABLE 40E-1.607(3)(a)
PERMIT APPLICATION PROCESSING FEES FOR
ENVIRONMENTAL RESOURCE PERMIT APPLICATIONS
REVIEWED PURSUANT TO CHAPTER 62-330, F.A.C.

For the purposes of determining the applicable processing fee, “project area” means the total area wherein works occur as part of an activity requiring a permit under Part IV of Chapter 373, F.S., including all portions of the stormwater management system serving the project area.

1. Use of the reviewing agency’s electronic self-certification system	\$0
2. Verification of exemption under Section 373.406 or 403.813(1), F.S., or under Rules 62-330.050 through 62-330.051, F.A.C.	\$100
3. Verification of qualification to use a Noticed General Permit	\$250
4. Individual or Conceptual Approval Permits, excluding Permits for a Mitigation Bank	
a. New applications – the processing fee for a new permit application shall be as determined from the categories below:	
(I) Total project area of less than 10 acres and no activities in, on or over wetlands or other surface waters, except where exempt under Rule 62-330.051(9)(a) through (c), F.A.C.	\$2000
(II) Project exceeds any of the thresholds in (3)(a)4.a.(I), above but involves a total project area of less than 10 acres, less than 1 acre of works (i.e. dredging, filling, construction, or alteration) in, on or over wetlands and other surface waters, AND less than 10 new boat slips	\$3500
(III) Project exceeds any of the thresholds in (3)(a)4.a.(II), above, but involves a total project area of less than 40 acres, less than 3 acres of works in, on or over wetlands and other surface waters, AND less than 30 new boat slips	\$5500
(IV) Project exceeds any of the thresholds in (3)(a)4.a.(III), above, but involves a total project area of less than 100 acres, less than 10 acres of works in, on or over wetlands and other surface waters, AND less than 50 new boat slips	\$7500
(V) Project exceeds any of the thresholds in (3)(a)4.a.(IV), above, but involves a total project area of less than 640 acres, AND less than 50 acres of works in, on or over wetlands and other surface waters	\$13,125
(VI) Project exceeds any of the thresholds (3)(a)4.a.(V), above	\$25,000
(VII) Projects that are exclusively for agriculture or silviculture, and that involve a total project area of less than 10 acres AND less than 1 acre of works (i.e. dredging, filling, construction, or alteration) in, on or over wetlands and other surface waters	\$859
(VIII) Projects that are exclusively for agriculture or silviculture, and that exceed any of the thresholds in (3)(a)4.a.(VII), above, but involves a total project area of less than 40 acres AND less than 3 acres of works in, on or over wetlands and other surface waters	\$2,444
(IX) Projects that are exclusively for agriculture or silviculture, and that exceed any of the thresholds in (3)(a)4.a.(VIII), above, but involve a total project area of less than 100 acres AND less than 10 acres of works in, on or over wetlands and other surface waters	\$4,029

(X) Projects that are exclusively for agriculture or silviculture, and that exceed any of the thresholds in (3)(a)4.a.(IX), above, but involve a total project area of less than 640 acres AND less than 50 acres of works in, on or over wetlands and other surface waters	\$5,284
(XI) Projects that are exclusively for agriculture or silviculture, and that exceed any of the thresholds in (3)(a)4.a.(X), above	\$6,605
(XII) Individual or Conceptual Permits solely for environmental restoration or enhancement activities, provided such activities are not associated with a mitigation bank and are not being implemented as mitigation for other activities that require a permit under Part IV of Chapter 373, F.S. For the purposes of this provision, the term “environmental restoration or enhancement” means an action or actions designed and implemented solely to convert degraded or altered uplands, wetlands, or other surface waters to intact communities typical of those historically present, or to improve the quality and condition of currently degraded wetlands or other surface waters to a more healthy, functional, and sustaining condition for fish, wildlife, and listed species	\$250
(XIII) Individual or Conceptual Permit solely to retrofit an existing stormwater management system or systems to add treatment to and reduce stormwater pollutant loadings from the system or systems	\$250
b. Major Modifications that exceed any of the thresholds in Rule 62-330.315(3), F.A.C.:	
(I) An Individual Permit or modification for a phase of construction that is consistent with an existing Conceptual Approval Permit	\$1500
(II) Major Modifications to an Individual or Conceptual Approval Permit that increase the project area	60% of fee for new permit for the same activity
(III) All other Major Modifications	60% of fee for new permit for the same activity
c. Minor Modifications that do not exceed any of the thresholds in Rule 62-330.315(2), F.A.C.:	
(I) Time Extensions of Permits, where not exempt from fees under Florida Statutes	\$500
(II) Minor Modifications to correct minor errors that do not involve technical review, to transfer ownership of a permit, or to transfer a permit from the construction to the operation phase	\$0
(III) All other Minor Modifications	\$250
5. Individual or Conceptual Permits for a Mitigation Bank	
a.New applications	
(I) for a Mitigation Bank with a permit area less than 100 acres	\$7,500
(II) for a Mitigation Bank with a permit area greater than 100 acres but less than 640 acres	\$13,125

(III) for a Mitigation Bank with a permit area of 640 acres or more	\$25,000
b. Major Modifications involving changes to one or more of the following components: service area; credit assessment; success or release criteria; hydrologic structures or alterations; constructions or mitigation design that does not increase the project area; elimination of lands; or monitoring or management plans:	
(I) Affecting one of the above components	20% of the fee under 5.a.
(II) Affecting two of the above components	40% of the fee under 5.a.
(III) Affecting three of the above components	60% of the fee under 5.a.
(IV) Major modifications affecting four or more of the above components or that increase the project area	100% of the fee under 5.a.
c. Major Modifications that do not involve changes to the components listed in (3)(a)5.b. above, but that exceed any of the thresholds in Rule 62-330.315(2), F.A.C.:	100% of the fee under 5.a.
d. Minor Modifications that do not exceed any of the thresholds in Rule 62-330.315(2), F.A.C.:	
(I) Time Extensions of Permits, where not exempt from fees under Florida Statutes	\$500
(II) To correct minor errors that do not involve technical review, to transfer ownership of a permit, or to transfer a permit from the construction to the operation phase	\$0
(III) All other Minor Modifications	\$250
e. Mitigation Bank Credit Release	\$0
f. Mitigation Bank Credit Withdrawal	\$0
6. Informal Wetland Determination	
a. Where total area included is less than 1 acre	\$250
b. Where total area included is greater than 1 acre	\$500
7. Variance or Waiver:	
a. Under Section 120.542, F.S.	\$0
b. Under Section 373.414(17), F.S.	\$1,125
8. Fee reductions:	
a. Applications by an entity qualifying under Section 218.075, F.S., when the fee exceeds \$100.00	\$100.00
b. Applications submitted by the U.S. Department of Defense	\$0

c. For resubmittal, within 365 days, of an application for the same project that was previously withdrawn, under Rule 62-330.071(3), F.A.C., any fee paid as part of the previous application will be applied toward the fee required for the application under this rule

Previously paid fee shall be applied

9. When used in Table paragraph 40E-1.607(3)(a), F.A.C., “Agriculture” shall be defined as set forth in Section 570.02, F.S.

10. For permit applications which involve a combination of fee categories, the highest fee that applies shall be charged.

11. Any individual permit application submitted concurrently with a conceptual approval application – where the individual permit application represents a phase of the conceptual approval application – is exempt from the above environmental resource permit fees.

12. For projects grandfathered pursuant to Section 373.414, F.S., the letter modification, conceptual approval, individual or general surface water management permit application fee shall be the same as listed in Table paragraph 40E-1.607(3)(a), F.A.C.

13. The District shall use the Consumer Price Index (CPI) adopted by the United States Department of Labor since the most recently revised fee increase for revising fees under Part IV of Chapter 373, F.S., pursuant to Section 373.109, F.S. The inflation index used is the price paid by all urban consumers for a market basket of consumer goods and services; specifically, the CPI figures for the “CPI-U, U.S. City Average. All Items” established for the previous five years by the Bureau of Labor Statistics (BLS) (www.bls.gov/cpi), computed as provided in the BLS publication Bureau of Labor Statictics Handbook of Methods, Chapter 17 (www.bls.gov/opub/hom/pdf/homch17.pdf).

TABLE 40E-1.607(3)(b)
PERMIT APPLICATION PROCESSING FEES FOR
PROJECTS GRANDFATHERED PURSUANT TO SECTION 373.414, F.S.
WETLAND RESOURCE (DREDGE AND FILL) PERMIT APPLICATIONS
REVIEWED PURSUANT TO CHAPTERS 40E-4, 40E-40, AND 40E-400, F.A.C.

Category	Amount
Construction projects up to and including 5 years Standard form projects including dredge and fill activities that affect 10 or more acres of jurisdictional area, pursuant to subsection 62-312.070(2), F.A.C. (1993)	\$7,500
Short form construction projects including dredging and filling activities that affect less than 10 acres of jurisdictional area, pursuant to subsection 62-312.070(2), F.A.C. (1993)	\$750
Variance associated with a wetland resource permit application From the prohibition of subsection 62-312.080(7), F.A.C.	\$132
From other permitting standards, permit conditions, or water quality standards	\$661
General Permits	\$132
Minor modifications of permits that do not require substantial technical evaluation by the District, in conformance with subsections 62-4.050(6) and (7), F.A.C. (1993), do not require a new site inspection by the District, and will not lead to substantially different environmental impacts or will lessen the impacts of the original permit:	\$66

Transfer of permits or time extensions	
Minor technical changes	
Existing permit fee is less than \$300, except for modification to permits issued pursuant to Section 403.816, F.S.	\$66
Existing permit fee is equal to or more than 300	\$330

1. For the purposes of determining the fee for wetland resource management permits, the term of duration for the permit shall be reduced by the period of time (in yearly increments) during which no dredging or filling activity occurs or no reclamation, restoration, or mitigation occurs and only minor monitoring and maintenance activities are required. The fee for the full term shall be submitted with the application. After the District determines the period of time that the term of the permit can be reduced, the excess fee shall be returned.

2. For permit applications which involve a combination of the project fee categories listed above, the highest fee that applies to the appropriate standard form or short form project, pursuant to Rule 62-312.070, F.A.C., shall be charged.

3. A single additional fee of \$500 shall be required for projects in which monitoring and evaluation to determine the success of the mitigation will be required beyond the period of time to which the permit fee will ordinarily apply. If it is determined at the time of the permit application that monitoring and evaluation to determine the success of the mitigation will be required beyond the time period to which the permit fee will ordinarily apply, then this single additional fee shall be due when it is determined that this monitoring and evaluation is required.

(4) Application for proprietary authorization under Chapters 253 and 258, F.S., except consent of use authorizations, processing fees are in the following table:

TABLE 40E-1.607(4)
PERMIT APPLICATION PROCESSING FEES FOR
PROPRIETARY AUTHORIZATIONS UNDER
CHAPTERS 253 AND 258, F.S.,
EXCEPT CONSENT OF USE AUTHORIZATIONS

See Chapter 18-21, F.A.C. for application fees for proprietary authorizations, specifically as follows:

18-21.008(1)(a)8.	Applications for Lease (eff. 8-10-05)
18-21.0081(1)(k)	Grandfather Structure Applications (eff. 8-10-05)
18-21.009(1)(g)	Applications for Public Easement (eff. 8-10-05)
18-21.010(1)(i)	Applications for Private Easement (eff. 8-10-05)
18-21.013(1)(l)	Applications to Purchase Lands Riparian to Uplands (eff. 3-27-82)
18-21.019(7)	Applications for Disclaimers, Quitclaim Deeds or Certificates to Clear Title to Filled Sovereignty Lands and for Disclaimers for Lands Lost Due to Avulsion or to Reclaim Lands Lost due to Artificial Erosion or Artificial Erosion and Avulsion (eff. 4-13-98)

(5) Petition for Formal Determination of Wetlands and Other Surface Waters processing fees

are in the following table:

TABLE 40E-1.607(5)
DETERMINATION PETITION PROCESSING FEES FOR
FORMAL DETERMINATION OF WETLANDS AND
OTHER SURFACE WATERS

For the validation of informal, non-binding wetland determinations pursuant to Section 373.421(6), F.S., the fees shall be the same as formal determinations listed in Table subsection 40E-1.607(5), F.A.C.

Category	Amount
Property less than or equal to 10 acres	\$500
Property greater than 10 acres but less than or equal to 40 acres	\$1,000
Property greater than 40 acres but less than or equal to 100 acres	\$1500
Additional fee per 100 acres (or portion thereof) beyond the first 100 acres	\$350
Reissuance of a Formal Determination	\$350

(6) Permit Processing Fee Waiver for Certain Local Governments.

Notwithstanding the provisions set forth above in this rule, the District shall waive permit processing fees for permit applications submitted by the governing body of a county with a population of less than 50,000, a municipality with a population of less than 25,000, a county or municipality not included within a metropolitan statistical area, or a third party under contract with such a county or municipality, provided:

- (a) The project for which the fee waiver is sought serves a public purpose; and
 - (b) The governing body submits Form No. 889 certifying that the fee reduction is necessary due to an environmental need for a particular project or activity; or
 - (c) The governing body submits Certification of Waiver of Permit Application Processing Fee, Form No. 0889, certifying that the permit processing fee is a fiscal hardship due to one of the following factors:
 - 1. Per capita taxable value is less than the statewide average for the current fiscal year;
 - 2. Percentage of assessed property value that is exempt from ad valorem taxation is higher than the statewide average for the current fiscal year;
 - 3. Any condition specified in Section 218.503, F.S., that determines a state of financial emergency;
 - 4. Ad valorem operating millage rate for the current year is greater than 8 mills; or
 - 5. A financial condition is documented in annual statements at the end of the current fiscal year which indicates an inability to pay the permit processing fee during that fiscal year.
- Form 0889, December 2011, <http://www.flrules.org/Gateway/reference.asp?No=Ref-00061>, is incorporated by reference herein and available at no cost by contacting the South Florida Water Management District Clerk's Office, 3301 Gun Club Road, West Palm Beach, FL 33406, 1(800)432-2045, ext. 6436 or (561)682-6436.

(7) PERMIT APPLICATION PROCESSING FEES FOR MODIFICATION OR TRANSFER OF ENVIRONMENTAL RESOURCE, SURFACE WATER MANAGEMENT OR WORKS OF THE DISTRICT PERMITS FOR PROPERTIES ACQUIRED BY THE DISTRICT PURSUANT TO THE FLORIDA FOREVER WORK PLAN OR SAVE OUR RIVERS LAND ACQUISITION AND MANAGEMENT PLAN:

- (a) Modification of existing permits to reflect property ownership changes where no\$0 new works or modifications to an existing stormwater management system is requested.

(b) Permit transfer pursuant to Rules 40E-1.6107 and 62-330.340, F.A.C. \$0
Rulemaking Authority 373.044, 373.109, 373.113, 373.421(2), 373.421(6)(b), 373.4131 FS. Law
Implemented 218.075, 373.109, 373.4131, 373.421(2), 373.421(6)(b), 403.201 FS. History–New
1-8-89, Amended 1-2-91, 11-15-92, 6-1-93, 1-23-94, 10-3-95, 4-1-96, 11-8-99, 5-24-00, 6-26-02,
7-11-02, 8-10-03, 8-14-03, 11-18-07, 11-1-09, 12-15-11, 10-23-12, 10-01-13.

OEBO SCHEDULE 1**LIST OF PROPOSED CONTRACTOR/CONSULTANT AND SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION**

Harbour Rd., Seawall to Harbor Rd. N.

SOLICITATION/PROJECT/BID NAME: _____

NAME OF PRIME RESPONDENT/BIDDER: Mock, Roos & Associates, Inc.

CONTACT PERSON: Garrytt G. Gruber, P.E., Senior Vice President

SOLICITATION OPENING/SUBMITTAL DATE: September 18, 2018

SOLICITATION/PROJECT/BID No.: 2020500

ADDRESS: 5720 Corporate Way, WPB, FL 33407

PHONE NO.: (561) 683-3113 **E-MAIL:** garry.gruber@mockroos.com

DEPARTMENT: Engineering and Public Works

PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT ON THIS PROJECT. PLEASE ALSO LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT.

Name, Address and Phone Number	(Check all Applicable Categories)			DOLLAR AMOUNT OR PERCENTAGE OF WORK				
	Non-SBE	M/WBE Minority/Women Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. Mock, Roos & Associates, Inc. 5720 Corporate Way West Palm Beach, FL 33407	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	\$84,759.61	_____
2. WGI, Inc. 2035 Vista Parkway, WPB, FL 33411 (561) 687-2220	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	\$42,844.47	_____
3. Pacifica Engineering Services, LLC 1181 S. Rogers Circle - Suite 3, Boca Raton, FL 33487 (561) 893-8093	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	\$12,203.10	_____	_____	_____	_____
4. Brown & Phillips, Inc. 1860 Old Okeechobee Rd., WPB, FL 33409 (561) 615-398	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	\$3,850.00	_____	_____	_____	_____
5. ESA Scheda Corporation 5892 East Fowler Avenue Tampa, FL 33617	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	\$119,593.91	_____
(Please use additional sheets if necessary)				Total	\$16,053.10	_____	\$247,197.99	_____
Total Bid Price \$ 263,251.09				Total SBE - M/WBE Participation \$16,053.10				

I hereby certify that the above information is accurate to the best of my knowledge:

Signature

Garrytt G. Gruber, P.E., Senior Vice President

Title

- Note:**
- The amount listed on this form for a Subcontractor/subconsultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and/or M/WBE, please indicate the dollar amount under the appropriate category.
 - Modification of this form is not permitted and will be rejected upon submittal.

OEBO LETTER OF INTENT – SCHEDULE 2

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. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: Harbor Rd., Seawall to Harbor Rd. N.
SOLICITATION/PROJECT NAME: 2020500

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

(Check box(es) that apply)

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

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 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. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingendes/ Allowances	Total Price/Percentage
2	Structural Engineering	1	LS		\$42,844.47

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: \$42,844.47

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.

Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage:

Mock, Roos & Associates, Inc.

Print Name of Prime

By: Garry G. Gruber (Oct 9, 2020 16:38 EDT)

Authorized Signature

Garrytt G. Gruber, P.E.

Print Name

Senior Vice President

Title

Date: October 9, 2020

WGI, Inc.

Print Name of Subcontractor/subconsultant

By: Mario Echagarrua (Oct 12, 2020 10:02 EDT)

Authorized Signature

Mario Echagarrua

Print Name

C.O.O.

Title

Date: October 9, 2020

OEBO LETTER OF INTENT – SCHEDULE 2

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. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: Harbor Rd., Seawall to Harbor Rd. N.
SOLICITATION/PROJECT NAME: 2020500

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

(Check box(s) that apply)
☒ SBE ☐ WBE ☒ MBE ☐ M/WBE ☐ Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 10.25.18 - 10.24.21

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. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
3	Geotechnical Engineering	1	LS		\$12,203.10

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: \$12,203.10

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.

Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage:

Mock, Roos & Associates, Inc.

Print Name of Prime

By: Authorized Signature

Garrytt G. Gruber, P.E.

Print Name

Senior Vice President

Title

Date: November 11, 2020

Pacifica Engineering Services, LLC

Print Name of Subcontractor/subconsultant

By: Authorized Signature

Wesley C. Foster, P.E.

Print Name

Principal Engineer

Title

Date: November 11, 2020

OEBO LETTER OF INTENT – SCHEDULE 2

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. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: Harbor Rd., Seawall to Harbor Rd. N.
SOLICITATION/PROJECT NAME: 2020500

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

(Check box(es) that apply)
☒ SBE ☐ WBE ☒ MBE ☐ M/WBE ☐ Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 01/13/19 - 01/30/22

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 checked="" type="checkbox"/> Caucasian American <input type="checkbox"/> Hispanic American <input type="checkbox"/> Native 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. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
4	Survey	1	LS		\$3,850.00

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: \$3,850.00

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.

Name of 2 nd /3 rd tier Subcontractor/subconsultant	Price or Percentage:
---	----------------------

Mock, Roos & Associates, Inc.

Print Name of Prime
Garry G. Gruber (Oct 9, 2020 15:48 EDT)
By:
Authorized Signature
Garrytt G. Gruber, P.E.
Print Name
Senior Vice President
Title
Date: October 9, 2020

Brown & Phillips, Inc.

Print Name of Subcontractor/subconsultant
John E. Phillips III (Oct 12, 2020 09:53 EDT)
By:
Authorized Signature
John E. Phillips, P.S.M.
Print Name
Principal
Title
Date: October 9, 2020

OEBO LETTER OF INTENT – SCHEDULE 2

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. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: Harbor Rd., Seawall to Harbor Rd. N.
SOLICITATION/PROJECT NAME: 2020500

Prime Contractor: Mock, Roos & Associates, Inc. Subcontractor: ESA Scheda Corporation
(Check box(es) that apply)

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

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 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. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
5	Environmental Consulting Services	1	LS		\$119,593.91

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: \$119,593.91

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.

Name of 2nd/3rd Tier Subcontractor/subconsultant

Price or Percentage:

Mock, Roos & Associates, Inc.

Print Name of Prime

Garryl Gruber (Oct 15, 2020 09:00 EDT)

By:

Authorized Signature

Garryl G. Gruber, P.E.

Print Name

Senior Vice President

Title

Date: October 15, 2020

ESA Scheda Corporation

Print Name of Subcontractor/subconsultant

Sandra Scheda Klaus

By:

Authorized Signature

Sandra Scheda Klaus, MS

Print Name

Director

Title

Date: October 15, 2020

Search

Insured Name

Mock, Roos & Associates, Inc.

Mock, Roos & Associates, Inc.

Active Records Only

Advance Search

nsured TasksAdmin Tools

View

Insured

Notes

History

Deficiencies

Coverages

Requirements

Contract Screen

Add

Edit

Help

Video Tutorials

Insured

Name:Mock, Roos & Associates, Inc.

Account Number:DX00001182

Address:5720 Corporate Way, West Palm Beach, FL, 33407

Status:Currently in Compliance.

Insured

Business Unit(s)DBA NumberPrint Insured InfoPrint Compliance Report

Account Information

Account Number:DX00001182

Risk Type:Standard - Professional Services

Do Not Call:Address Updated:

Address Information

Mailing AddressPhysical Address

Insured:Mock, Roos & Associates, Inc.

Address 1:5720 Corporate Way

Address 2:

City:West Palm Beach

State:FL

Zip:33407

Country:

Contract Information

Contract Number:

Contract Start Date:Contract End Date:

Contract Effective Date:Contract Expiration Date:

Description of Services:Civil Design AnnualSafety Form II:No

Contact Information

Contact Name:Dennis ThomasMisc:

Phone Number:(561) 906-1811All Phone Number:

Fax Number:

E-Mail Address:dennis.thomas@mockroos.com;

Approval Date:

Rush:No

Contract on File:No

Certificate Received:No

Indemnification Agreement:No

Tax Id:

This Account created by WCO on 09/28/2020.