

**PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY**

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**Meeting Date:** December 8, 2020  Consent  Regular  
 Workshop  Public Hearing

**Department:** Engineering & Public Works Department  
**Submitted By:** Roadway Production Division  
**Submitted For:** Roadway Production Division

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**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 \$172,151.37 for Australian Avenue from north of the I-95 bridge to Okeechobee Boulevard (Project).

**SUMMARY:** Approval of this WTO will provide the professional services necessary for an additional southbound through lane on Australian Avenue from north of the I-95 bridge to Okeechobee Boulevard. The Affirmative Procurement Initiative selected for this Contract on November 6, 2019 by the Goal Setting Committee is a 20% minimum mandatory Small Business Enterprise (SBE) participation. MRA agreed to 20% SBE participation for the Contract. They agreed to 24% SBE participation for this WTO. Their cumulative SBE participation to date including this WTO is 34.38%. MRA is a Palm Beach County (County) based company. **This Project is included in the Five-Year Road Program. District 7 (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)	\$ 87,623.60	(Roadway Analysis, Roadway Plans, Drainage Analysis, Utilities Coordination, Environmental Permitting, Signing and Pavement Marking Analysis and Marking Plans)
Reimbursable Services (Not to Exceed)	\$ 59,618.43	(Surveys, Geotechnical, Structural)
Optional Services (Not to Exceed)	<u>\$ 24,909.34</u>	(Post Design, Utility Locating)
<b>Total:</b>	<b>\$172,151.37</b>	

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

**Attachments:**

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

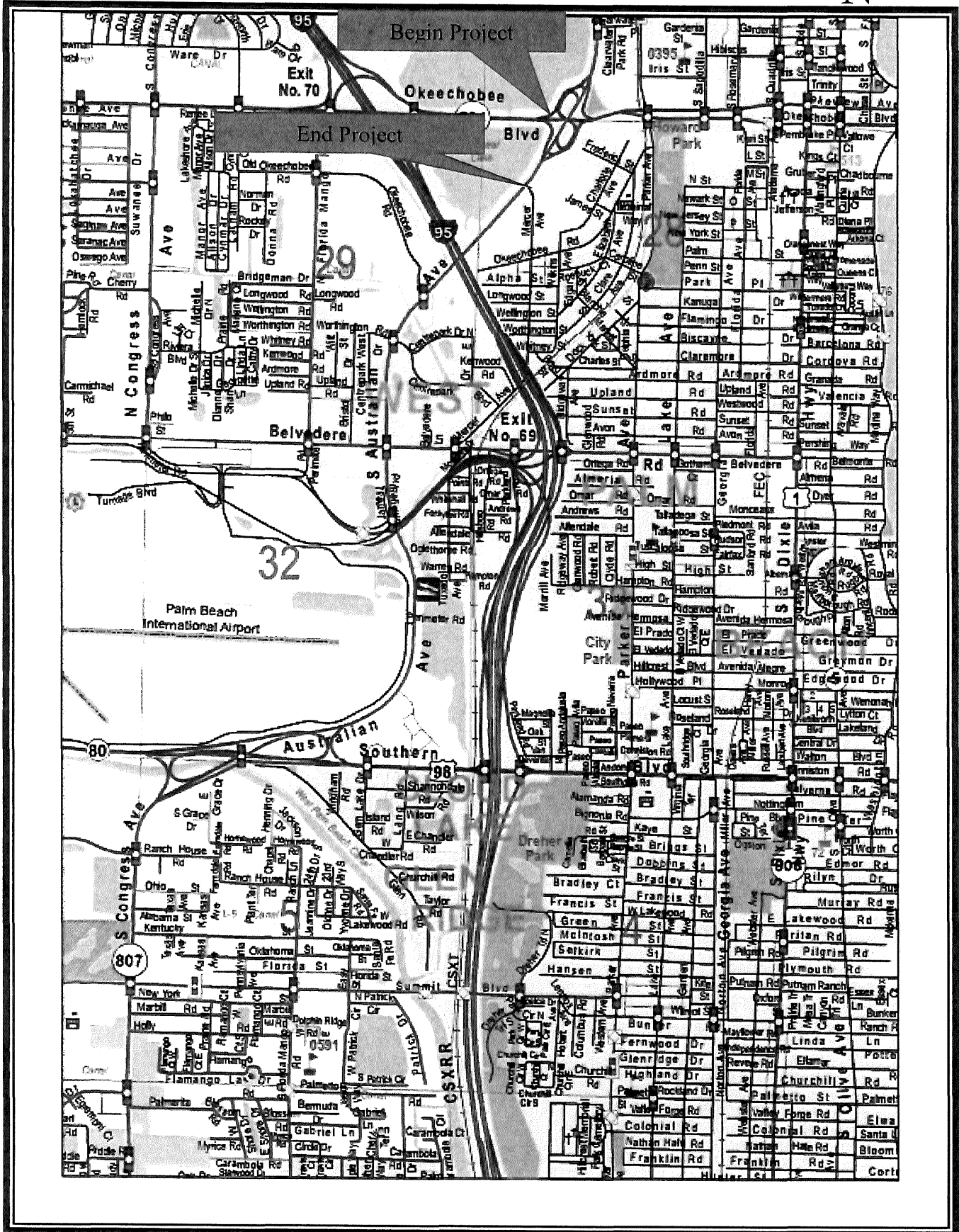
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Recommended by: YBH/TEL Sarah Z. [Signature] 10/23/2020  
County Engineer Date

Approved By: [Signature] 11/15/20  
Assistant County Administrator Date



Australian Avenue from north of I-95 Bridge to Okeechobee Boulevard  
Palm Beach County Project No. 2019102



LOCATION MAP

**WORK TASK ORDER TO THE  
ANNUAL CIVIL PROFESSIONAL SERVICES CONTRACT  
BY AND BETWEEN PALM BEACH COUNTY  
AND MOCK, ROOS & ASSOCIATES, INC. FOR  
AUSTRALIAN AVENUE FROM NORTH OF I-95 BRIDGE  
TO OKEECHOBEE BOULEVARD  
PROJECT #2019102**

This Work Task Order to the Contract for Annual Civil Professional Services Contract (R2019-0717), dated June 4, 2019 (ANNUAL CONTRACT), 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 construct an additional southbound roadway through lane on Australian Avenue from north of I-95 Bridge to Okeechobee Boulevard, Project No. **2019102** (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 \$87,623.60  
Reimbursable Expenses capped at \$59,618.43  
Optional Services capped at \$24,909.34  
Totaling **\$172,151.37**

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 One Hundred Seventy Two Thousand One Hundred Fifty One Dollars and Thirty Seven Cents (\$172,151.37) 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:

**CONSULTANT:**

**Mock, Roos & Associates, Inc.**

BY: \_\_\_\_\_  
Mayor

BY:   
Gary Gruber, P.E., Senior Vice President

**S E A L**

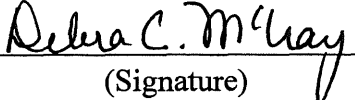
**CORPORATE SEAL**

**ATTEST:**

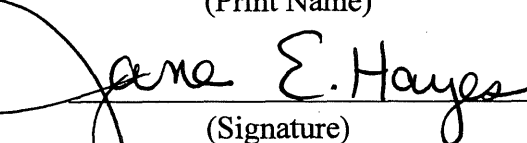
Sharon R. Bock, Clerk & Comptroller  
Circuit Court

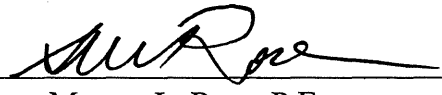
**ATTEST WITNESS:**

BY: \_\_\_\_\_  
(Deputy Clerk)

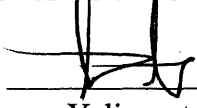
BY: Debra C. M'Uay  
(Print Name)  
  
(Signature)

**APPROVED AS TO TERMS AND CONDITIONS:**

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

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

**APPROVED AS TO FORM & LEGAL SUFFICIENCY:**

BY:  for Ms. Herman  
Yelizaveta B. Herman,  
Assistant County Attorney

*Scope & Fee OK  
 8/24 WJC  
 10-6-20*

**EXHIBIT "A"**  
**AUSTRALIAN AVE., N. OF I-95 TO OKEECHOBEE BLVD.**  
 Palm Beach County Project No. 2019102

**SCOPE OF SERVICES**

August 16, 2019

Revised September 16, 2020

**PROJECT DESCRIPTION**

Mock Roos will provide professional engineering and related services required in connection with the proposed roadway construction of an additional southbound (SB) through lane on Australian Avenue crossing over Okeechobee Blvd. Also included is redesign of the existing eastbound (EB) Okeechobee Boulevard to SB Australian Avenue entrance ramp to extend the available merge distance on Australian Avenue south of Mercer Drive as follows:

- Widening of Australian Avenue to provide for an additional through SB outside lane, commencing at the north end of the current bridge over Okeechobee Blvd. This will result in three (3) through SB lanes from the end of the current WB to SB loop ramp, each approximately 11 feet wide. An 8-foot wide sidewalk will also be provided. It is expected that sufficient space already exists on the bridge over Okeechobee Blvd. to accommodate this additional lane, including the sidewalk, and not require bridge widening or structural modifications.
- Extension of the 3<sup>rd</sup> SB lane south of the bridge, along with the sidewalk, will require shifting the roadway several feet to the west, impacting the existing barrier wall and retaining wall. A new concrete retaining wall to support the roadway embankment, approximately 300 feet long with a traffic barrier wall, will be designed by our team's structural engineer, WGI, Inc. Construction of the new retaining wall could impact existing vegetation located along the western slope, and the current location of the EB Okeechobee Blvd. to SB Australian Ave. entrance ramp.
- Redesign of the EB Okeechobee Blvd to SB Australian Avenue on-ramp to connect with the new SB lane. This redesign encompasses the addition of a concrete traffic separator between the new SB lane and the on-ramp. This separator is intended to prohibit ramp traffic from crossing over the SB lanes to turn left onto Mercer Avenue. This on-ramp lane will merge into the new SB lane south of the Mercer Avenue intersection, prior to the roadway elevating to cross I-95.

Professional services shall include the preparation of a complete set of roadway construction plans for the construction of the above described improvements. The project design shall include modification to drainage facilities, curb and gutters, sidewalk (where appropriate), guardrail, signing and pavement markings, regulatory agency permitting and coordination, utility identification and coordination, along with preparation of a

complete design survey and geotechnical soils testing. No additional right-of-way acquisition or easements are anticipated under this scope of services. Construction plans will be prepared on the most recently available County aerial photography, in accordance with the following standards:

- Palm Beach County Thoroughfare Road Design Procedures (January 2019), and Traffic Standards (T-P-18).
- FDOT Standard Plans FY2019-20
- AASHTO “*A Policy on Geometric Design of Highways and Streets*”, 7<sup>th</sup> Edition
- Florida “Greenbook”, dated 2016
- FDOT Plans Preparation Manual, dated January 2017

Mock Roos will provide the Basic Services identified below. Sub-consultants will be utilized for certain services as indicated.

## **BASIC SERVICES**

- I. PHASE I – Initial utility coordination, typical section and master plan development, and 35% construction plans submittal.**

I A. Initial Utility Contact Plans – This includes the preparation of separate plan and profile sheets (1”=40’H and 1”=4’V) of the entire project from completed surveys, showing the existing right-of-way lines, the survey baseline with existing ground profile, intersecting side streets and driveways identified. These plans will be provided to the County Utility Coordinator for submittal to utility companies known to have facilities along the project corridor. An electronic version of the base map (plan & profile format) will be provided to the County for coordination with utility companies.

I B. Typical Section Package – This includes the preparation of up to two (2) proposed typical roadway sections, indicating the existing road, curbs, sidewalks, etc. and the proposed construction of roadway curbs, shoulders, sidewalks, swales, retaining walls, etc. One typical section is anticipated for the additional SB lane extension; and one section for the redesigned entrance ramp with the concrete separator. The typical section package will establish the proposed (or existing) design speeds with applicable notations that may be of importance in developing the roadway master plan. This package, accompanied by the master plan (Phase I C.) will be submitted to the County for review and approval, prior to proceeding with construction drawings.

I C. Master Plan – Based on the typical section package (Phase I B.), a master plan (no profile) of the proposed improvements for the roadways will be prepared at a scale of 1”=40’. The plan will show all basic geometry, lane configurations, median openings, right-of-way lines, conceptual pavement markings, with other features to help establish the intended build-out plan for



the project. This plan, accompanied by the typical section package will be presented to the County Roadway Production staff for review, comment and approval.

I D. 35% Design Plan Submittal – Following approval of the typical section and master plan, the initial construction plan package (scale 1"=40'H; 1"=4'V on 11x17 sheets) will be prepared, including each element identified in the County's *Thoroughfare Road Design Procedures* Manual. This includes preliminary elements of geometric design (including survey reference data), roadway and drainage construction, utility locations (as provided by each utility company), and other essential aspects of the project. Preliminary profile grade lines (existing and proposed) and existing cross sections are to be included. Up to five (5) sets of the 35% design plans will be provided to the County for review and comment. Electronic version in .pdf and DWG formats of the submittal will also be provided via either e-mail, FTP site, or CD.

- II. PHASE II** – This phase consists of incorporating County staff comments from the 35% design submittal into the initial plans and completing the preliminary elements of the proposed construction. This includes roadway geometry, drainage design, and signing/pavement marking plans, in accordance with the County's *Thoroughfare Road Design Procedures* Manual, culminating in the 65% construction plans submittal.

II A. Utility Pothole Coordination Plans – (from responses to requests under task I A. above)

II B. Initial Utility Coordination Meeting – (as scheduled by County)

II C. Pothole Underground Utilities at Potential Conflict Locations

This task addresses the issues pertaining to the potential conflicts and relocations of utilities that may be necessary. Based on the Preliminary plans (including utility company provided information), and progress achieved on the 65% plans, potential conflicts will be identified of underground and above ground utilities with any element of the proposed design. These conflicts may arise due to proposed drainage structures or swales, curbs, driveways, sidewalks, etc. A matrix identifying these potential conflicts will be prepared for distribution to the affected utility companies, and at the initial utility coordination meeting. The necessity of performing potholing of those utilities to determine precise horizontal and vertical location will be determined at this meeting. Each utility company is expected to perform their own pothole exploration and provide Mock Roos with sufficient information to evaluate the extent of each conflict. In the event certain utility companies are unable or unwilling to obtain the needed information, we can employ the services of our utility locating firm as described under the Optional Services paragraph of this Exhibit. The guidelines established in *Appendix A* of the County's *Thoroughfare Road Design Procedures* Manual will be followed.

II D. 65% Design Plan Submittal - Staff comments from the 35% submittal will be incorporated into this plan submittal. The roadway geometric plan, drainage plan, proposed construction information on cross sections, roadway plan & profiles, and other applicable sheets, as well as the preliminary signing/pavement marking plans will be included in this submittal, in accordance with the County *Thoroughfare Road Design Procedures Manual*. Additional items that may be included in this submittal are:

- An itemized list of bid items (with approximate quantities)
- A Preliminary Estimate of Construction Cost
- Drainage Computations
- Geometric Design Computation Book

Up to four (4) sets of the 65% design plans will be provided to the County for review and comment. Electronic version in .pdf and DWG format of the submittal will also be provided via either e-mail, FTP site, or CD.

II E. Stake Existing Right-of-Way – The project surveyor, Brown & Phillips, Inc., will stake the existing right-of-way of the project area. “Permanent” field markings will be set at corner points and at 500-foot intervals along continuous tangents. Staking will be provided typically at 100-foot intervals, in accordance with the Design Procedures Page 20, Phase II E. This staking will be performed when requested by County staff, typically prior to the 65% Design Plan Submittal in Phase II D. above.

II F. Field Review of Right-of-Way, Restorations, etc. –With 65% plans in hand, Mock Roos staff will accompany County staff on a field review of the project site. During this review, proposed new construction features will be described and the impacts of the proposed construction on adjacent properties closely examined. The need for additional right-of-way, easements, and or construction restoration can be determined at this time.

II G. All Permits Applied For – Following receipt of County review comments to the 65% construction plans and proposed drainage design, regulatory agency permit applications will be prepared and submitted to each applicable regulatory agency. Agencies and their respective permits for this project include:

- South Florida Water Management District (SFWMD) – *Permit Modification*

Mock Roos 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.

**III. PHASE III** – This phase consists of incorporating County staff comments from the 65% design submittal into the construction plans and completing any remaining elements of the construction plans. This primarily includes roadway

construction items, the drainage design, and signing/pavement marking plans, and each of the applicable items in the County's *Thoroughfare Road Design Procedures* Manual, culminating in the 96% construction plans submittal.

III A. Utility Conflict Resolution Plans – update of the construction plans to show how utility conflicts will be resolved.

III B. Second Utility Coordination Meeting (Final Conflict Resolution)

Following progress achieved during the previous utility coordination meeting(s), the conflict resolution plans (III A. above) will be presented to the County and utility companies, along with an updated matrix of remaining potential conflicts during a second utility coordination meeting. The procedures established in *Appendix A* of the County's *Thoroughfare Road Design Procedures* Manual will be followed.

III C. 96% Design Plan Submittal - Staff comments from the 65% submittal will be incorporated into this plan submittal, along with the final roadway geometric plan, drainage plans, cross sections, roadway plan & profiles, construction details and other applicable sheets, the design plans package will be assembled in accordance with the County *Thoroughfare Road Design Procedures* Manual. Additional items that may be included in this submittal are:

- Complete Summary of Quantities sheet, itemized list of bid items – with quantities
- Quantity Computation Book
- Engineers Construction Cost Estimate (based on readily available unit prices)
- Proposed Special Provisions for construction

Up to five (5) sets of the 96% design plans will be provided to the County for review and comment. Electronic version in .pdf and DWG format of the submittal will also be provided via either e-mail, FTP site, CD.

- IV. PHASE IV** – This phase consists of incorporating County staff comments from the 96% design submittal into the construction plan set and finalizing all elements of the construction plans. This primarily includes roadway construction items, the drainage design, and signing/pavement marking plans, and each of the applicable items in the County's *Thoroughfare Road Design Procedures* Manual, culminating in the 100% design plans ready for construction with permits received.

IV A. Final Utility Coordination Meeting - Following the completion of utility conflict resolution, a third, and final utility coordination meeting will be held with the County Project Engineer, Utility Coordinator, and affected utility companies. The matrix of remaining utility conflicts will be updated with the disposition of each conflict documented. The procedures established in

*Appendix A* of the County's *Thoroughfare Road Design Procedures Manual* will be followed.

**IV B. 100% Design Plan Submittal** - Staff comments from the 96% submittal will be incorporated into this plan submittal. Upon completion, the design plans package will be assembled in accordance with the County *Thoroughfare Road Design Procedures Manual*. Final Signing & Pavement Marking Plans will be included. Copies of all regulatory agency permits will be included in this submittal. Up to five (5) sets of the 100% design plans will be provided to the County for final review and comment. Electronic version in .pdf and DWG format of the submittal will also be provided via either e-mail, FTP site, CD.

- V. **FINAL SUBMITTAL** – Any final comments from County staff will be incorporated into the Final Design Plans, including Signing & Pavement Marking Plans. One (1) complete signed and sealed set of plans (scale 1"=40'H; 1"=4'V on 11x17 sheets) will be provided with this Final Submittal. All other documents required under the County's *Thoroughfare Road Design Procedures Manual* will be provided. This includes final construction cost estimates, signed & sealed computation books, and an electronic copy of all final documents. Up to four (4) plan sets will be provided to the County, one (1) signed & sealed by the project engineer. Final CADD documents, electronic/digital signatures on final .pdf's will be provided on CD's.

## REIMBURSABLE SERVICES

**Engineering Surveys** – The firm of Brown & Phillips, Inc. will perform all surveys required under this project. Mock Roos will coordinate with the surveyor during the performance of work to assure that the provisions of the County *Thoroughfare Road Design Procedures Manual* are followed. The engineering surveys will be performed as described in the Brown & Phillips proposal attached.

**Geotechnical Services** – The firm of Nutting Engineers of Florida, Inc. will perform all geotechnical soils investigations required on the project. Mock Roos will coordinate with the geotechnical consultant during the performance of work to assure that the provisions of the County *Thoroughfare Road Design Procedures Manual* are followed. The soils investigations will be performed as described in the Nutting Engineers proposal attached.

**Structural Engineering** – The firm of WGI, Inc. will provide all structural engineering services required under this project. Mock Roos will coordinate with the structural engineer during the performance of work to assure that the provisions of the County *Thoroughfare Road Design Procedures Manual* are followed. The structural engineering services will be performed as described in the WGI proposal attached.

## OPTIONAL SERVICES

**Utility Locating Services** – The firm of Craig A. Smith & Associates, Inc. will perform utility locating services upon request as an optional service. This service will include surveyed location data of the horizontal and vertical location of each utility locate. Mock Roos will coordinate with the utility locating service during the performance of work to assure that the provisions of the County *Thoroughfare Road Design Procedures* Manual are followed. These services will be performed as described in the Craig A. Smith & Associates proposal attached.

**Post Design Services** - Professional engineering services will be provided by Mock Roos and WGI during the pre-construction and construction phases of the project, only as authorized by Palm Beach County. The expected work will include shop drawing reviews of specific construction elements such as drainage catch basins, retaining walls, and other specialized products. For Mock Roos an estimated 40 hours of time for senior engineers is included, and for WGI an estimated 20 hours of time for engineers is also included.

## PROJECT SCHEDULE

The above scope of services for professional engineering and related services will be completed according to the following schedule:

<b><u>Task Description</u></b>	<b><u>Following NTP</u></b>
Receipt of Full R/W Title Search from County	10 days
Data Collection (Surveys and Soils Explorations)	95 days
Phase I – Typical Section & Master Plan Submittal	70 days
Phase I – 35% Design Plan Submittal	115 days
Phase II – 65% Design Submittal	205 days
Regulatory Agency Permit Application Submittals	215 days
Phase III – 96% Design Submittal	285 days
Regulatory Agency Permits Expected	305 days
Phase IV – 100% Design Submittal	345 days
Final Submittal	375 days

This schedule is dependent upon timely receipt of information from outside sources (i.e. utility companies, permit agencies, and Palm Beach County). Phase submittal review times of 3 weeks (maximum) for County staff at each submittal has been included in the estimated time schedule.

MOCK ROOS & ASSOCIATES, INC.

PBC No. 2019102

B8040.10

AUSTRALIAN AVE. & OKEECHOBEE BLVD.  
ENGINEERING AND RELATED SERVICES

Palm Beach County Engineering & Public Works Department

August 16, 2019

Estimate of Manpower Requirements & Professional Services Fee

Revised Sept. 16, 2020

TASK DESCRIPTION	Project Manager ✓	Engineer ✓	Engineer Intern ✓	CADD Technician ✓	Total Hours	Amount
<b>BASIC SERVICES</b>						
<b>Roadway Design and Plan Production</b>						
1. Project General and Project Common Tasks	26	18	0	0	44	\$ 2,436.46
2. Roadway Analysis	23	52	50	40	165	\$ 6,272.33
3. Roadway Plans	36	84	88	92	300	\$ 11,073.56
4. Drainage Analysis	10	24	26	20	80	\$ 2,989.10
5. Utilities Coordination	12	24	32	16	84	\$ 3,192.52
6. Environmental Permitting	4	24	12	6	46	\$ 1,748.84
7. Signing & Pavement Marking Analysis	4	6	10	4	24	\$ 926.84
8. Signing & Pavement Marking Plans	6	12	16	24	58	\$ 2,060.26
9. County Meetings (up to 5)	15	10	4	0	29	\$ 1,514.65
<b>TOTAL MAN HOURS</b>	<b>136</b>	<b>254</b>	<b>238</b>	<b>202</b>	<b>830</b>	
<b>TOTAL LABOR COSTS</b>	\$ 9,072.56	\$ 9,906.00	\$ 7,378.00	\$ 5,858.00		\$ 32,214.56 ✓
<b>HOURLY LABOR RATES</b>	\$ 66.71 ✓	39.00 ✓	31.00 ✓	29.00		
				Salary Related Costs		\$ 32,214.56 ✓
				Multiplier		\$ 2.72 ✓
	<b>TOTAL ROADWAY DESIGN FEE:</b>					<b>\$ 87,623.60</b> ✓
	<b>REIMBURSABLE SERVICES</b>					
	Out-of-pocket costs: printing and reproduction					\$ 525.00 ✓
	Estimated Permitting Fees					\$ 3,300.00 ✓
	<b>Subconsultant tasks:</b>					
	Brown & Phillips, Inc. - Surveys					\$ 26,676.69 ✓
	Nutting Engineers of Florida, Inc. - Geotechnical					\$ 14,687.10 ✓
	WGI, Inc. - Structural Engineering					\$ 14,429.64 ✓
	<b>TOTAL REIMBURSABLE SERVICES FEES:</b>					<b>\$ 59,618.43</b> ✓
	<b>OPTIONAL SERVICES</b>					
	Craig A. Smith & Associates, Inc. - Underground Utility Locating					\$ 16,770.00 ✓
	Mock, Roos & Associates, Inc. - Post Design Services					\$ 5,750.62 ✓
	WGI, Inc. - Post Design Services					\$ 2,388.72 ✓
	<b>TOTAL OPTIONAL SERVICES FEES:</b>					<b>\$ 24,909.34</b> ✓
	<b>TOTAL PROJECT FEES:</b>					<b>\$ 172,151.37</b> ✓

EXHIBIT B - Page 1 of 20

**AUSTRALIAN AVE. & OKEECHOBEE BLVD.**

**Mock Roos & Associates, Inc**

**Out-of-Pocket Expenses**

August 16, 2019 (REVISED SEPTEMBER 16, 2020)

**Printing Expenses**

<u>REPRODUCTION</u>	<u>sets</u>	<u># sheets per set</u>	<u>total sheets</u>	<u>number submittals</u>	<u>total copies</u>	
<b>11x17 copies</b>						
Palm Beach County - Rdwy & Struc	5	40	200	5	1,000	✓
Utility Coordination (Initial) electronic	0	25	0	1	0	
Utility Coordination (Final) electronic	0	40	0	1	0	
SFWMD (electronic)	0	40	0	2	0	
Internal Working Copies			300		300	✓
<b>TOTAL COPIES</b>					1,300	✓
Rate per sheet					\$ 0.25	✓
<b>Total Cost for 11x17 copies</b>					<b>\$ 325.00</b>	✓
<b>8-1/2x11 copies</b>						
Miscellaneous Correspondence	1	400	400	1	400	✓
Documentation/Design Notebook	1	400	400	4	1,600	✓
<b>TOTAL SHEETS</b>					2,000	✓
Rate per sheet					\$ 0.10	✓
<b>Total Cost for 8-1/2x11 copies</b>					<b>\$ 200.00</b>	✓
<b>TOTAL REPRODUCTION COSTS</b>					<b><u>\$ 525.00</u></b>	✓
<b>Permitting Fees</b>						
SFWMD .... Per fee schedule effective 8/7/2016 Permit Mod					\$ 3,300.00	✓
<b>TOTAL ESTIMATED PERMITTING FEES</b>					<b><u>\$ 3,300.00</u></b>	✓

**Optional Services**

<u>POST-DESIGN SERVICES</u>	<u># hours</u>	<u>raw labor rate</u>	<u>Amount</u>	
Project Manager	20	66.71	\$1,334.20	
Engineer	20	39.00	<u>\$780.00</u>	✓
Subtotal	40		\$2,114.20	
		multiplier	2.72	
			<b><u>\$5,750.62</u></b>	✓



## 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

- Permit area > 100 acres but < 640 acres.....\$ 13,125
- Permit area >= 640 acres.....\$ 25,000

Individual or Conceptual Mitigation Bank Permit **Major Modification** (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)

- Permit area < 100 acres
  - Affecting one of the above components.....\$ 1,500
  - Affecting two of the above components.....\$ 3,000
  - Affecting three of the above components.....\$ 4,500
  - Affecting four or more of the components or increasing bank size.....\$ 7,500
- Permit area > 100 acres but < 640 acres
  - Affecting one of the above components.....\$ 2,625
  - Affecting two of the above components.....\$ 5,250
  - Affecting three of the above components.....\$ 7,875
  - Affecting four or more of the components or increasing bank size.....\$ 13,125
- Permit area >= 640 acres
  - Affecting one of the above components.....\$ 5,000
  - Affecting two of the above components.....\$ 10,000
  - Affecting three of the above components.....\$ 15,000
  - Affecting four or more of the components or increasing bank size.....\$ 25,000

Mitigation Bank **Credit Release**.....\$ 0  
 Mitigation Bank **Credit Withdrawal**.....\$ 0

**Formal Determination of Wetlands and Other Surface Waters**

- Property <= 10 acres.....\$ 500
- Property > 10 acres but <= 40 acres.....\$ 1,000
- Property > 40 acres but <= 100 acres.....\$ 1,500
- Property > 100 acres, addl fee per 100 acres (or portion of).....\$ 350
- Reissuance of a Formal Wetland Determination.....\$ 350

**Informal Wetland Determination**

- Total area < 1 acre.....\$ 250
- Total area > 1 acre.....\$ 500
- HB 7091.....\$ 0

Individual Permit for a **phase of construction** that is consistent with an existing Conceptual Approval.....\$ 1,500

Individual or Conceptual Permit (solely for **environmental restoration or enhancement** activities, not mitigation).....\$ 250

Individual or Conceptual Permit (solely to **retrofit** an existing system).....\$ 250

**Variance or Waiver**

- Under Section 120.542, F.S.....\$ 0

- Under Section 373.414(17), F.S..... \$ 1,125
- General Permit Verification (f/k/a Noticed General Permit)..... \$ 250**
- Exemption Verification.....\$ 100**
- Use of Electronic Certification System.....\$ 0**

Proprietary Authorization (**SLERP**). Link to FDEP (<http://www.dep.state.fl.us/legal/Rules/rulelist.htm>), Chapter 18-21:

- Consent of Use
- Lease
- Easement

**Fee Reductions**

- Applications by entity qualifying under Section 218.075, F.S. (where fee > \$100).....\$ 100
- Applications submitted by U.S. Department of Defense..... \$ 0
- Applications withdrawn and resubmitted within 365 days, any fee paid is applied toward resubmitted application.

**Lake Okeechobee Drainage Basin Works of the District Permits**

- Individual Permit..... \$ 150**
- Notice of Intent for a General Permit..... \$ 100**

**Everglades Agricultural Area (EAA) Basin Works of the District Permits**

**Individual EAA Permit**

- **New Individual Permit..... \$ 1,880**  
(plus \$1.50/acre for each acre over 320 acres, maximum fee \$30,000)
- **Renewal Individual Permit (with or without modifications)..... \$ 1,560**  
(plus \$0.25/acre for each acre over 320 acres, maximum fee \$5,000)
- **Modification of an existing Individual Permit..... \$ 1,880**
- **Letter Modification of an existing Individual Permit.....\$ 500**
- **Admin Info Update to an existing Individual Permit..... No Fee**
- **Transfer (ownership) of an existing Individual Permit..... \$ 200**

**Master EAA Permit**

- **New Master Permit..... \$ 1,880**  
(plus \$1.50/acre for each acre over 320 acres, maximum fee \$750,000)
- **Renewal Master Permit (with or without modifications)..... \$ 1,680**  
(plus \$0.25/acre for each acre over 320 acres, maximum fee \$150,000)
- **Modification of an existing Master Permit..... \$ 1,880**
- **Letter Modification of an existing Master Permit.....\$ 500**
- **Admin Info Update to an existing Master Permit..... No Fee**
- **Transfer (ownership) of an existing Master Permit..... \$ 500**

### C-139 Basin Works of the District Permits

**Individual C-139 Basin Permit**

- **New Individual Permit**.....\$ 1,880
- **Renewal Individual Permit**..... \$ 1,880
- **Modification** of an existing Individual Permit..... \$ 500
- **Transfer (ownership)** of an existing Individual Permit..... \$ 100

**General C-139 Basin Permit**

- **New Individual Permit**.....\$ 250
- **Renewal Individual Permit**..... \$ 250
- **Modification** of an existing Individual Permit..... \$ 100
- **Transfer (ownership)** of an existing Individual Permit..... \$ 100

**NOTE:** "Agriculture" means the science and art of production of plants and animals useful to humans, including to a variable extent the preparation of these products for human use and their disposal by marketing or otherwise, and includes aquaculture, horticulture, floriculture, viticulture, forestry, dairy, livestock, poultry, bees, and any and all forms of farm products and farm production. For the purposes of marketing and promotional activities, seafood shall also be included in this definition.



June 19, 2019  
September 16, 2020 (revised)

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

**Re: Australian Ave. & Okeechobee Blvd. - Palm Beach County Project No. 2019102  
Roadway Design Survey**

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**

We will perform a specific purpose/topographic survey under this project and the survey work will be performed in accordance with the current Standards of Practice and Palm Beach County Roadway Design Procedures dated January 2019, and all Palm Beach County requirements. All survey work done will result in a signed and sealed survey drawing in accordance with all applicable requirements, codes, rules and Statutes governing Surveying and Mapping.

#### **I. HORIZONTAL PROJECT NETWORK CONTROL**

Using the information supplied by Palm Beach County, we will establish the Rights-of-Way for Okeechobee Boulevard and Australian Avenue. A traverse will be run through the route and found monumentation will be tied in. The survey will be oriented to Palm Beach County horizontal control (NAD 83/90 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department.

The limits of the survey are the intersection of Okeechobee Boulevard and Australian Avenue south approximately 500' past right-of-way pinch point, north to the west-bound ramp, west to the edge of water and east from the north-bound west edge of pavement and are shown on the included map.

#### **II. RIGHT-OF-WAY**

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

#### **III. VERTICAL PROJECT NETWORK CONTROL**

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

#### **IV. BASELINE LAYOUT**

We will lay out the baseline at 100-foot intervals setting appropriate points at each station. The baseline will be laid out within the limits of the 3800' route. These baseline points will be used in the topographic and cross section phase to locate features and facilitate checks.

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

Thomas  
June 19, 2019  
September 16, 2020 (revised)

#### **V. HORIZONTAL CONTROL POINTS**

The historic baseline of survey (if available) will be tied to a pair of PBCo. Horizontal Control Points at each end of the baseline. Stations and offsets and State Plane Coordinates and monumentation will be labeled at begin and end of historic baseline as well as PI's, PC's, PT's, PRC's and PCC's along the baseline not to exceed 1000 feet between control stations. All monumentation along the historic baseline will be referenced to the intervisible random project control monumentation. We propose to set four (4) horizontal control points.

#### **VI. SECTION TIES AND PROPERTY TIES**

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

#### **VII. SIDE STREET SURVEYS**

A topographic survey will be done on all side streets to 100 feet from the right of way line of Okeechobee Boulevard and Australian Avenue, with centerline elevations to the drainage divide or 200'. This survey will show the edge of pavement and all above ground features to 25 feet outside of the existing right of way.

#### **VIII. TOPOGRAPHY**

A topographic survey will be performed along the route. This survey will tie in all visible features such as, but not limited to, signs, light poles, guardrails, utilities, walks, edge of pavement, curbing, drainage structures, striping, etc. These locations will show all features within the corridor from right of way to right of way extending to 25 feet outside the proposed right of way (if provided prior to start of the field work). The survey will include the top of water elevation.

#### **IX. CROSS SECTIONS and TIN CREATION (DTM)**

Cross sections will be done along the route at 100-foot intervals. These cross sections will cover the roadway to the right of way lines and extend to 25 feet outside of the right of way (if provided prior to start of the field work). In addition, we will prepare a TIN file and all the corresponding break lines for the design of the roadway. Since a TIN is required this will entail additional shots to be taken on the cross sections to accurately depict the existing conditions.

#### **X. AS-BUILTS**

We will attempt to get as-built information on all the pipes leading out of any storm structures found. We will show invert elevations, pipe sizes and materials for all pipes located including outfall pipes.

#### **XI. UNDERGROUND UTILITIES**

We will locate or set points for any necessary soil borings along the route. These points will be determined by others and supplied to Brown & Phillips, Inc. Brown & Phillips, Inc will locate any underground utilities that are marked in the field.

#### **XII. BRIDGE SURVEY**

No bridge details are included, only surface roadway features will be shown.

Thomas  
June 19, 2019  
September 16, 2020 (revised)

**XIII. TREE LOCATIONS**

We will locate all the trees (4" and larger measured at breast height) and shrubs/hedges within the right of way and extending to 25 feet outside the rights-of-way. These will be shown on the CADD file with types and caliper sizes. Not a tree survey.

**XIV. OPTIONAL SERVICES: LEGAL DESCRIPTIONS AND SKETCHES**


No legal descriptions and sketches are anticipated.

**XV. CLOSURE**

A certified signed and sealed Topographic Survey (11" x 17" sheets on a 1" = 40' scale) will be prepared and delivered, to be included with the engineering plans (sheets SURX-SURXX) showing the existing right-of-way and supporting record information in addition to all improvements as outlined. We propose to provide Mock Roos & Associates, Inc. and Palm Beach County Survey Section with 1 set certified, signed & sealed, of the Survey, 1 set in PDF digitally signed and CAD files in the version requested. Any additional work will be done on an hourly basis as approved by you. We will perform the scope of services for a **lump sum fee of \$26,676.69** (see Table 'A' for an hourly breakdown). Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Sincerely,

**Brown & Phillips, Inc.**



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

JEP/mb



TABLE 'A'

Australian Ave. & Okeechobee Blvd. - Palm Beach County Project No. 2019102

Type of Survey: Roadway Design Size: 3800'±

Date: June 19, 2019

September 16, 2020 (revised)

TASK	3 MAN CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Meetings and Coordination				3	
Horizontal Project Network Control	4				Establish control
Title Review			16	4	Review/compile furnished right-of-way
Vertical Project Network Control	8		2		Set benchmarks along corridor
Baseline Layout	3		1		Layout baseline at 100' intervals
Horizontal Control Points	4		1		Set horizontal control points and prepare PNC Sheet
Section Ties	2		1		Tie in PBCo. Horizontal control
Subdivision & Property Ties	6		4	1	Tie in adjoining property corners
Topography	32		4	1	Locate all above ground features
Cross Sections	20		3	1	At 100' intervals to 25' outside R/W - TIN file
As-builts	8		2		As-built storm structures
Underground Utilities and/or soil borings	4		1		Locate soil borings and marked utility
Tree Locations	8		2		Locate planted trees in R/W to 25' outside R/W (4" or greater)
Specific Purpose Survey		40	6	4	Prepare drawing of Specific Purpose Survey (8 sheets)
Address Comments		8	4	2	
Total Hours:	99 ✓	48 ✓	47 ✓	16 ✓	
Raw Rate/Hour	\$54.17	\$30.12	\$30.12	\$41.75	
Subtotal:	\$5,362.83 ✓	\$1,445.76 ✓	\$1,415.64 ✓	\$668.00 ✓	

**Total Raw Labor Cost:** \$8,892.23 ✓

**Labor Cost x 3.0 multiplier:** \$26,676.69 ✓

**TOTAL PRICE:** \$26,676.69 ✓





June 10, 2019

Revised: August 2, 2019  
Revised: September 16, 2020

*Palm Beach County SBE  
Miami Dade County Tier 2 CBE  
SFWMD SBE  
Small Business Administration SBE  
for Federal Projects*

Mock Roos & Associates, Inc.

Attn: Mr. Dennis Thomas

5720 Corporate Way

West Palm Beach, FL 33407

Phone: 561.683.3113/ Cell: 561.906.1911/ Email: dennis.thomas@mockroos.com

Re: Proposal/Agreement for Geotechnical Exploration Services  
PBC Project #2910102  
Australian Avenue and Okeechobee Boulevard  
West Palm Beach, FL

Dear Mr. Thomas:

Nutting Engineers of Florida, Inc. (NE) is pleased to present this proposal/agreement for performing geotechnical engineering services at the referenced project.

Per your email dated June 6, 2019 and review of the aerial provided, we understand that plans for this project include adding a new through lane from the bridge over Okeechobee Boulevard to approximately 500 feet south of Mercer Avenue. The project will include redesign of the on-ramp from Okeechobee Boulevard and constructing a new retaining wall to be about 300 feet long at the referenced site.

As discussed, due to safety concerns, the south bound Australian Avenue on-ramp will need to be closed during the duration of the performance of the below proposed scope of work. Additionally, the south bound right-hand lane of Australian Avenue will also need to be closed starting north of Okeechobee Boulevard and extending south past the work area. This equates to approximately 1,000 to 1,500 lineal feet of lane closure area. It is planned to utilize two crews to perform the proposed scope of work in order to complete in one day, barring unfavorable weather conditions or other circumstances beyond our control. Based on your request for proposal and our understanding of the project, we propose the following scope of work and fee schedule.

#### **SCOPE OF WORK**

Per your request, we propose to perform the following:

- Five roadway cores to include pavement, base, and sub-base material;
- Seven auger borings to a depth of six feet each;
- Two SPT borings to a depth of 50 feet each;
- Soil classification including corrosivity tests;
- Percolation test, if deemed necessary.

Mock Roos & Associates, Inc.

PBC Project #2019102 geo

Australian Avenue & Okeechobee Blvd., West Palm Beach, FL

Page 2 of 3

At the completion of the on-site work, the soil samples will be returned to our laboratory. We will provide an engineering report including a description of our findings along with bearing capacity analysis for the retaining wall. In order to provide information concerning the engineering properties of the soils encountered, it is anticipated that tests may be performed including corrosion series analysis on representative soil samples collected from the site. The engineering report will include graphic logs of the test borings and a test boring location plan. We assume the site is accessible to truck mounted drilling equipment and that underground utilities will be cleared by others prior to our performing the on-site work.

**FEE SCHEDULE – Per Civil Engineering Annual Services on Task Order Basis Mock Roos Team (February 2019 Pricing):**

**Task I – Standard Penetration Test Borings**

**Aggregate Testing:**

Grain size determination

A.	Full grain size 9 tests x \$85.00/test	\$765.00	✓
B.	Wash through (#200) 9 tests x \$45.00/test	\$405.00	✓

**Asphalt Testing:**

1.	Asphalt cores (obtaining core samples) 5 cores x \$60.00/each	\$300.00	✓
2.	Asphalt density and thickness 5 tests x \$35.00/test	\$175.00	✓
3.	Coring machine plus generator rental 1 trip x \$100.00/trip	\$100.00	✓

**Field Exploration:**

1.	Auger borings *7 borings x 6 l.f./boring x \$10.00/l.f.	\$420.00	✓
3.	Standard penetration tests – truck rig (0'-50') *2 SPTs x 50 l.f./SPT x \$12.50/l.f.	\$1,250.00	✓
4.	Grout bore holes (0' – 50') *92 l.f. x \$5.00/l.f.	\$460.00	✓
5.	Casing *100 l.f. x \$7.00/l.f.	\$700.00	✓
8.	Mobilization (50-mile travel) 1 trip x \$150.00/trip	\$150.00	✓

\*If loose or deleterious soil is encountered it may be necessary to extend the soil boring(s).

**Engineering and Professional Services:**

•	Senior Engineering Technician for test layout, utility clearance, MOT coordination 10 hours x \$24.00 (raw rate) *2.7 multiplier	\$648.00	✓
•	CADD Technician 3 hours x \$22.00 (raw rate) *2.7 multiplier	\$178.20	✓
•	Project Manager – site visit and reporting 35 hours x \$51.67 (raw rate) *2.7 multiplier	\$4,882.50	✓
•	Principal Engineer 2 hours x \$71.00 (raw rate) *2.7 multiplier	\$383.40	✓

*Mock Roos & Associates, Inc.*  
*PBC Project #2019102 geo*  
*Australian Avenue & Okeechobee Blvd., West Palm Beach, FL*  
*Page 3 of 3*

**VII - Misc. Services:**

- 2. Percolation test  
 1 test x \$350.00/test \$350.00 ✓

**Reimbursable Not Addressed in Fee Schedule:**

- Corrosion series  
 (pH, sulfate, chlorides & conductivity)  
 2 tests x \$100.00/test \$200.00 ✓
- Maintenance of Traffic (MOT) including MOT plan  
 1-day x \$3,500.00/day \$3,500.00 ✓

**Task I Estimated Total: \$14,687.10 ✓**

Once we receive the executed/ signed proposal, project scheduling will commence. The on-site work should take approximately one business day to complete depending on MOT set-up time and weather delays. The geotechnical report should be available within approximately 15 business days after the on-site work is completed.

NE has been offering engineering, testing and inspection services for over 50 years in South Florida and the Treasure Coast. Our commitment to practical, cost-effective solutions supported by responsive client service distinguishes the firm and enables us to solve your most demanding technical challenges. One of the key constituents for NE's success is our staff of experienced engineering and environmental professionals and technicians that are registered/certified and have been trained to provide a wide range of testing and inspection services. Our laboratory is certified and checked annually by Construction Materials Engineering Council (CMEC) and Florida Department of Transportation (FDOT).

Our laboratory is checked annually by the Construction Materials Engineering Council (CMEC) and is certified to perform geotechnical engineering and materials testing services for the Florida Department of Transportation (FDOT).

Thank you for providing us the opportunity to present this proposal/agreement. We look forward to working with you on this and future projects.

Respectfully submitted,  
**NUTTING ENGINEERS OF FLORIDA, INC.**

Scott Ersland  
 Division Manager

Richard C. Wohlfarth, P.E.  
 Principal/ Director of Engineering

Australian Ave Mock Roos Okeechobee Blvd WPB geo rev. 9-16-20 rev 9-22-20

1310 NEPTUNE DRIVE · BOYNTON BEACH, FLORIDA 33426 · 561-736-4900 · FAX 561-737-9975  
 Treasure Coast 772-408-1050 · Broward 954-941-8700 · Miami Dade 305-824-0060



**AUSTRALIAN AVE. & OKEECHOBEE BLVD.**  
**Palm Beach County Project 2019102**  
 June 26, 2019  
 Revised August 6, 2019  
 Revised September 15, 2020

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

TASK DESCRIPTION / DESIGN	Principal	Project Manager	Project Engineer	Engineer	CADD Technician	Total Hours	TOTAL
Key Sheet		1	1		2	4	\$166.70
Horizontal Wall Geometry		2	2		4	8	\$333.40
Design		2	8	4		14	\$604.32
Vertical Wall Geometry		1	6	1	8	16	\$621.88
General Notes			2		2	4	\$154.74
Wall Plan and Elevation			6		16	22	\$797.52
Section and Details			4	4	8	16	\$582.80
Reinforcing Bar List				4	6	10	\$339.98
Submittal Reviews		6	8		6	20	\$888.30
Cost Estimate		1	6			7	\$320.24
<b>TOTAL HOURS</b>	0	13	43	13	52	121	
<b>TOTAL FEE</b>	\$0.00	\$728.00	\$1,893.72	\$455.00	\$1,733.16		\$4,809.88

Raw salary related costs \$4,809.88  
 Multiplier: 3.00  
 Total \$14,429.64

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

TASK DESCRIPTION / POST DESIGN	Principal	Project Manager	Project Engineer	Engineer	CADD Technician	Total Hours	TOTAL
Post Design Services (Optional)		2	6	12		20	\$796.24
						0	\$0.00
						0	\$0.00
<b>TOTAL HOURS</b>	0	2	6	12	0	20	
<b>TOTAL FEE</b>	\$0.00	\$112.00	\$264.24	\$420.00	\$0.00		\$796.24

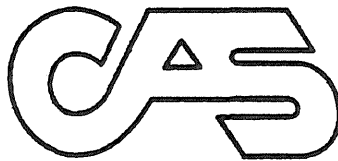
Raw salary related costs \$796.24  
 Multiplier: 3.00  
 Total \$2,388.72

\$16,818.36

**CRAIG A. SMITH & ASSOCIATES**

**PROPOSED SCOPE OF SERVICES AND PROPOSED FEE**  
**FOR**  
**PROFESSIONAL SURVEYING AND UTILITY LOCATING SERVICES**  
**AT**  
**AUSTRALIAN AVE. & OKEECHOBEE BLVD.**  
**CITY OF WEST PALM BEACH**  
**PALM BEACH COUNTY, FLORIDA**

**DATED: June 26, 2019**  
**REVISED: August 8, 2019**  
**REVISED: September 15, 2020**



**CRAIG A. SMITH & ASSOCIATES**  
**Engineers•Surveyors•Utility Locators•Grant Specialists**  
**21045 COMMERCIAL TRAIL, BOCA RATON, FL 33486**  
**(561) 314-4445 FAX (561) 314-4458**  
**EMAIL: [BKEENER@CRAIGASMITH.COM](mailto:BKEENER@CRAIGASMITH.COM)**



Australian Ave. & Okeechobee Blvd.  
Map of Specific Purpose Survey  
CAS Proposal No: 19-9999-3859  
June 26, 20  
Revised: August 8, 2019  
Revised: September 15, 2020  
Page 2 of 5

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**CRAIG A. SMITH & ASSOCIATES**

**PROPOSED SCOPE OF SERVICES AND PROPOSED FEE**

**FOR**

**PROFESSIONAL SURVEYING AND UTILITY LOCATING SERVICES**

**PROJECT NAME:** Australian Ave. & Okeechobee Blvd.  
Additional Southbound Lane  
City of West Palm Beach, Palm Beach County, Florida

**PROPOSAL NUMBER:** 18-9999-P3859

**PROJECT DESCRIPTION:** Map of Specific Purpose Survey

**PROJECT PLANS:** N/A

**CLIENT:** Mock-Roos & Associates, Inc.

**Name:** Mr. Dennis J. Thomas

**Address:** 5720 Corporate Way  
West Palm Beach, Florida 33407

**Phone:** 561-683-3113

**E-Mail:** dennis.thomas@mockroos.com

**GENERAL :**

Craig A. Smith and Associates (CAS) propose to accomplish the professional surveying services for the above project as outlined in this proposal. When the parties have agreed upon the details of the services to be provided, the fees to be paid for the services, and



Australian Ave. & Okeechobee Blvd.  
 Map of Specific Purpose Survey  
 CAS Proposal No: 19-9999-3859  
 June 26, 20  
 Revised: August 8, 2019  
 Revised: September 15, 2020  
 Page 3 of 5

sign this proposal, this proposal will become a formal written agreement. CAS proposes to accomplish the services as follows:

**S85 PROVIDE LOCATES – GPR/EM SERVICES**

Provide utility location and verification services within the area shown on the sketch attached hereto as Exhibit "A". Using AWPAs standards for marking. A subsurface ground penetrating radar (GPR) unit shall be used in addition to electromagnetic induction (EM) to perform/verify horizontal locations of existing utility lines as requested. Lines will be painted on the ground or pin flags set to show said lines on the surface.

**LOCATES \$3,000.00**

**S86 MAP OF SPECIFIC PURPOSE SURVEY**

Survey will physically locate all above ground, visible utilities within the area shown on the sketch attached hereto as Exhibit "A", together with surface marks for sub-surface utilities as field marked by CAS Utility Locates per task S85 above. This information will be included in a Map of Specific Purpose Survey utilizing a base map provided or aerial photo as available. Horizontal data will be based on the Florida State Plane Coordinate Grid System and vertical data will be based on North American Vertical Datum of 1988. Up to 10 vacuum excavation test holes will be located and the utility type, size, material and depth shown on the survey per information provided by the utility locators. The information will be added to a base map created for the project in current software parameters and provided to the Engineering Consultant as well as said Map of Specific Purpose Survey for submittal to entities of interest.

**SURVEY \$3,820.00**





Australian Ave. & Okeechobee Blvd.  
Map of Specific Purpose Survey  
CAS Proposal No: 19-9999-3859  
June 26, 20  
Revised: August 8, 2019  
Revised: September 15, 2020  
Revised: September 22, 2020  
Revised: September 23, 2020  
Page 4 of 4

**S87 UTILITY TEST HOLES (SOFT DIGS)**

Utility test holes (soft digs) will be performed and reports provided for each with utility depth, elevation, size, material and type. The test holes will be performed based on the direction of the Prime Consultant and limited to 10 test holes per this request.

**TEST HOLES (10) \$4,950.00  
UNIT PRICE = \$495.00 PER HOLE**

**S88 MAINTENANCE OF TRAFFIC (MOT)**

CAS Utility locates will process the permit for the Maintenance of Traffic (MOT) through the appropriate agency(s) and coordinate the placement of required safety devices with the MOT Contractor.

**MOT \$5,000.00**

**FEE TOTAL**

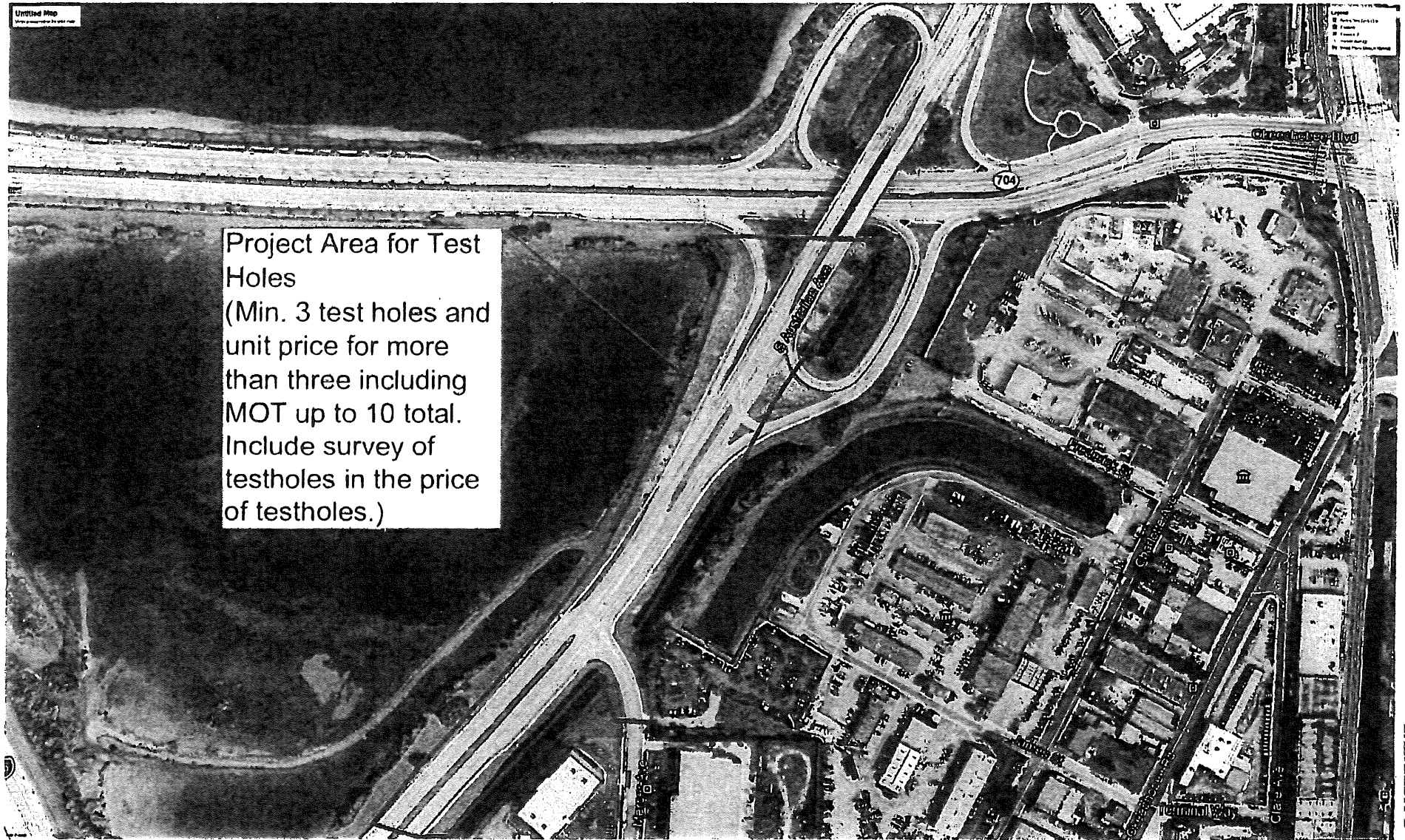
The fee for items listed above will be **SIXTEEN THOUSAND SEVEN HUNDRED SEVENTY AND 00/100 DOLLARS (\$16,770.00).**

**AGREED TO AND ACCEPTED BY:**

**CRAIG A. SMITH & ASSOCIATES**

Robert D. Keener, PSM  
Vice President

# EXHIBIT "A"



Project Area for Test Holes  
(Min. 3 test holes and unit price for more than three including MOT up to 10 total. Include survey of testholes in the price of testholes.)

### OEBO SCHEDULE 1

#### LIST OF PROPOSED CONTRACTOR/CONSULTANT AND SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

SOLICITATION/PROJECT/BID NAME: <u>Australian Ave., N. of I-95 Bridge to Okeechobee Blvd.</u> NAME OF PRIME RESPONDENT/BIDDER: <u>Mock, Roos &amp; Associates, Inc.</u> CONTACT PERSON: <u>Garrytt G. Gruber, P.E., Senior Vice President</u> SOLICITATION OPENING/SUBMITTAL DATE: <u>September 18, 2018</u>	SOLICITATION/PROJECT/BID No.: <u>2019102</u> ADDRESS: <u>5720 Corporate Way, WPB, FL 33407</u> PHONE NO.: <u>(561) 683-3113</u> E-MAIL: <u>garry.gruber@mockroos.com</u> DEPARTMENT: <u>Engineering &amp; Public Works</u>
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**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 (561) 683-3113	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	\$97,199.22	_____
2. Brown & Phillips, Inc. 1860 Old Okeechobee Rd., WPB, FL 33409 (561) 615-3988	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	\$26,676.69	_____	_____	_____	_____
3. Nutting Engineers of Florida, Inc. 1310 Neptune Drive, Boynton Beach, FL 33426 (561) 736-4900	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	\$14,687.10	_____
4. WGI, INC. 2035 Vista Parkway, WPB, FL 33411 (561) 687-2220	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	\$16,818.36	_____
5. Craig A. Smith & Associates, Inc. 21045 Commercial Trail, Boca Raton, FL 33486 (561) 314-4445	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	\$16,770.00	_____
(Please use additional sheets if necessary)				Total	\$26,676.69	_____	\$145,474.68	_____
Total Bid Price \$ <u>172,151.37</u>				Total SBE - M/WBE Participation <u>\$41,363.79</u>				

I hereby certify that the above information is accurate to the best of my knowledge: Garrytt G. Gruber (Sep 24, 2020 09:15 EDT) Signature  
 Garrytt G. Gruber, P.E., Senior Vice President Title

- Note:
1. 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.
  2. 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.
  3. 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: 2019102  
 SOLICITATION/PROJECT NAME: Australian Ave., N. of I-95 Bridge to Okeechobee Blvd.

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

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

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

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input checked="" type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> 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
2	Survey	1	LS		\$26,676.69

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: \$26,676.69

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<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant \_\_\_\_\_ Price or Percentage: \_\_\_\_\_

**Mock, Roos & Associates, Inc.**

Print Name of Prime  
 By: Garrytt G. Gruber  
Garrytt G. Gruber (Sep 17, 2020 13:59 EDT)  
 Authorized Signature  
 Garrytt G. Gruber, P.E.  
 Print Name  
**Senior Vice President**  
 Title  
 Date: September 17, 2020

**Brown & Phillips, Inc.**

Print Name of Subcontractor/subconsultant  
 By: John E. Phillips, III  
John E. Phillips, III (Sep 17, 2020 14:26 EDT)  
 Authorized Signature  
 John E. Phillips, P.S.M.  
 Print Name  
**Principal**  
 Title  
 Date: September 17, 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: 2019102

SOLICITATION/PROJECT NAME: Australian Ave., N. of I-95 Bridge to Okeechobee Blvd.

Prime Contractor: Mock, Roos & Associates, Inc. Subcontractor: Nutting Engineers of Florida, Inc.  
(Check box(s) that apply)

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 09.30.17-9.29.20

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

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

**S/M/WBE PARTICIPATION** - S/M/WBE Primes must document all work to be performed by their own work force on this form. 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		\$14,687.10

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: \$14,687.10

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 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant \_\_\_\_\_ Price or Percentage: \_\_\_\_\_

**Mock, Roos & Associates, Inc.**

Print Name of Prime  
Garryt  
By: Garryt Gruber (Sep 29, 2020 16:18 EDT)

Authorized Signature  
**Garryt G. Gruber, P.E.**

Print Name  
**Senior Vice President**

Title  
Date: **September 29, 2020**

**Nutting Engineers of Florida, Inc.**

Print Name of Subcontractor/subconsultant  
Connie Mosley-Gworek  
By: Connie Mosley-Gworek (Sep 30, 2020 09:51 EDT)

Authorized Signature  
**Connie Mosley-Gworek**

Print Name  
**Business Development Associate**

Title  
Date: **September 29, 2020**

**OEBO LETTER OF INTENT – SCHEDULE 2**

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SOLICITATION/PROJECT NUMBER: 2019102

SOLICITATION/PROJECT NAME: Australian Ave., N. to I-95 Bridge to Okeechobee Blvd.

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):

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

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Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
4	Structural Engineering	1	LS		\$16,818.36

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: \$16,818.36

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<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant \_\_\_\_\_ Price or Percentage: \_\_\_\_\_

**Mock, Roos & Associates, Inc.**

Print Name of Prime

By: Garrytt Gruber  
Garrytt Gruber (Sep 24, 2020 08:55 EDT)

Authorized Signature

Garrytt G. Gruber, P.E.

Print Name

Senior Vice President

Title

Date: September 24, 2020

**WGI, Inc.**

Print Name of Subcontractor/subconsultant

By: Mario Echagarra  
Mario Echagarra (Sep 24, 2020 10:22 EDT)

Authorized Signature

Mario Echagarra

Print Name

C.O.O.

Title

Date: September 24, 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: 2019102  
 SOLICITATION/PROJECT NAME: Australian Ave., N. of I-95 Bridge to Okeechobee Blvd.

Prime Contractor: Mock, Roos & Associates, Inc. Subcontractor: Craig A. Smith & Associates, Inc.

**(Check box(s) 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):

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

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Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
5	Utility Locating Services	1	LS		\$16,770.00

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: \$16,770.00

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<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant \_\_\_\_\_

Price or Percentage: \_\_\_\_\_

**Mock, Roos & Associates, Inc.**

Print Name of Prime

By: Garry G. Gruber  
(Sep 24, 2020 09:14 EDT)  
 Authorized Signature

Garrytt G. Gruber, P.E.

Print Name

**Senior Vice President**

Title

Date: September 24, 2020

**Craig A. Smith & Associates, Inc.**

Print Name of Subcontractor/subconsultant

By: Stephen C. Smith  
 Authorized Signature

Stephen. C. Smith, P.E.

Print Name

**President**

Title

Date: September 24, 2020

Insured Name

Insured

Mock Roos (DX00001006)

Mock Roos (DX00001006)

Active Records Only  
Advance Search

Insured Tasks Admin Tools

View

- Insured
- Notes
- History
- Deficiencies
- Coverages
- Requirements
- Contract Screen
- Add
- Edit
- Help
- Video Tutorials

Name: Mock Roos

Account Number: DX00001006

Address: 5720 Corporate Way, West Palm Beach, FL, 33407-2066

Status: Currently in Compliance.

Insured

[Print Insured Info](#) [Print Compliance Report](#)

Account Information

Account Number: DX00001006

Risk Type: Standard - Professional Services

Do Not Call: Address Updated:

Address Information

Mailing Address Physical Address

Insured: Mock Roos

Address 1: 5720 Corporate Way

Address 2:

City: West Palm Beach

State: FL

Zip: 33407-2066

Country:

Contract Information

Contract Number: Work Task Order for Civil Design Annual

Contract Start Date: Contract End Date:

Contract Effective Date: Contract Expiration Date:

Description of Services: Work Task Order for Civil Design Safety Form II: No

Contact Information

Contact Name: Dennis Thomas Misc: Work Task Order for Civil Design Annual

Phone Number: (561) 472-6234 Alt 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 08/10/2020.