

**Department:** Engineering and Public Works  
**Submitted For:** Roadway Production Division

## II. FISCAL IMPACT ANALYSIS

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

Fiscal Years	2026	2027	2028	2029	2030
Capital Expenditures	\$545,000	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	\$545,000	-0-	-0-	-0-	-0-
# ADDITIONAL FTE					
POSITIONS (Cumulative)	-0-	-0-	-0-	-0-	-0-

Is Item Included in Current Budget?

Yes ☒ No ☐

Is this item using Federal Funds?

Yes ☐ No ☒

Is this item using State Funds?

Yes ☐ No ☒

#### Budget Account Number:

Fund	Dept	Unit	Object
3504	361	2028	6505
3500	361	2028	6505

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

Road Impact Fee Zone 4/ Lantana Rd. & Jog Rd. Intersection Improvements

Transportation Improvmt Fund/ Lantana Rd. & Jog Rd. Intersection Improvements

#### Brief Description: New consultant service authorization (CSA) #4

##### CSA #4

• Basic Services	\$262,737.00
• Reimbursable	\$ 54,034.77
• Optional Services	\$108,239.31
<b>Total CSA #4</b>	<b>\$425,011.08</b>

##### Estimated Staff Costs

• Roadway Production	\$ 64,988.00
• Roadway Production: Right-of-Way	\$ 15,000.00
• Survey	\$ 15,000.00
• Traffic	\$ 25,000.00
<b>Total Staff Costs</b>	<b>\$119,988.00</b>

**Fiscal Impact** **\$544,999.08**

**Impact Fee Description**-Prepare design documents to construct a northbound left turn and the west approach from Lantana Road. Provide additional capacity at the intersection within Impact Fee Zone 4, use of impact fees in accordance with Article 13, Chapter H, Section 4 of the ULDC.

### C. Departmental Fiscal Review:

## III. REVIEW COMMENTS

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

ASB 1/2/26  
OFMB 1/1/26

Brundage 1/5/26  
Contract Dev. and Control 26115-26  
1-5-26 (TW)

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

MPH 1/6/26  
Assistant County Attorney

### C. Other Department Review:

\_\_\_\_\_  
Department Director

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

LANTANA ROAD AND JOG ROAD INTERSECTION IMPROVEMENTS

Palm Beach County Project #2024518



LOCATION MAP

ATTACHMENT 1

**CONSULTANT SERVICE AUTHORIZATION NO. 4**  
**UNDER THE INTERSECTION IMPROVEMENTS ANNUAL**  
**DESIGN SERVICES CONTRACT**

Project Name: **Lantana Road and Jog Road Intersection Improvements**  
Project No: **2024518** Commission District No.: **3**

	<b>SBE</b>
Participation for this authorization	<b>100%</b>
Participation to date for this Contract	<b>98.80%</b>
Contract Commitment	<b>85%</b>
This authorization is under the EBO Ordinance.	

**PALM BEACH COUNTY**  
**BOARD OF COUNTY COMMISSIONERS** Account No.: **3504-361-2028-6505**  
**3500-361-2028-6505**

Consultant Service Authorization No. 4 (CSA) under the Intersection Improvements Annual Design Services Contract dated April 18, 2023 (R2023-0477) (CONTRACT), between the COUNTY and the CONSULTANT identified herein is for the services described in **EXHIBIT A** and **EXHIBIT B** for this CSA.

- 1. CONSULTANT: Masse Consulting Services, LLC
- 2. Address: 2101 Vista Parkway, Suite 277, West Palm Beach, FL 33411
- 3. CONSULTANT shall begin work promptly on the requested Services, per the schedule attached as part of **EXHIBIT A**.
- 4. Scope of Services to be provided by CONSULTANT: Provide professional engineering services to Palm Beach County for the Lantana Road and Jog Road Intersection Improvements to add a third eastbound left turn lane on Lantana Road, and to widen northbound Jog Road to receive the third left turn lane in accordance with the attached **EXHIBIT A** dated May 22, 2025.
- 5. The compensation to be paid CONSULTANT for providing the requested services as detailed in **EXHIBIT B** shall be:

<input checked="" type="checkbox"/> Basic Services in a lump sum fee of	\$262,737.00
<input checked="" type="checkbox"/> Reimbursable Expenses capped at	\$ 54,034.77
<input checked="" type="checkbox"/> Optional Services capped at	<u>\$108,239.31</u>
<b>Totaling</b>	<b>\$425,011.08</b>

- ☒ OEBO Schedules 1 & 2 **EXHIBIT C**
- ☒ Project History **EXHIBIT D**

- 6. All terms of the CONTRACT shall apply to this CSA.

*This Contract, including all Schedules, Forms, and attachments, is subject to the County Emergency Ordinance 2025-014, approved by the BCC on June 3, 2025. As a result, the M/WBE participation will not be enforced.*

**CONSULTANT SERVICE AUTHORIZATION NO. 4**  
**UNDER THE INTERSECTION IMPROVEMENTS ANNUAL**  
**DESIGN SERVICES CONTRACT**

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

CONSULTANT: Masse Consulting  
Services, LLC  
Federal ID: 84-2958439

COUNTY:

Approved as to Terms and Conditions

Signed: Basher Khan

Typed Name: Md Abul Basher Khan

Title: Manager

Date: 11/7/2025

By: Morton L. Rose

Typed Name: Morton L. Rose, P.E.

Title: Division Director

(Corporate Seal)

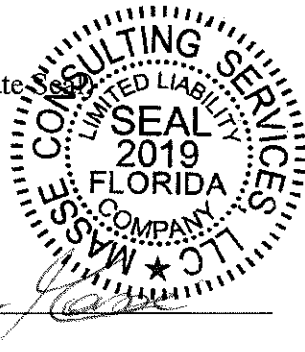
ATTEST WITNESS:

Signed: Fenson Masse

Typed Name: FENSON MASSE

Title: MANAGER

Date: 11/7/2025



**CONSULTANT SERVICE AUTHORIZATION NO. 4**  
**UNDER THE INTERSECTION IMPROVEMENTS ANNUAL**  
**DESIGN SERVICES CONTRACT**

{SIGNATURE PAGES CONTINUED}

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

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

Typed Name: Sara Baxter

Title: Mayor

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

ATTEST:

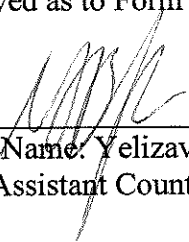
Michael A. Caruso

Clerk of the Circuit Court & Comptroller

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

Deputy Clerk

Approved as to Form and Legal Sufficiency

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

Typed Name: Yelizaveta B. Herman

Title: Assistant County Attorney

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24518 lantana at jog\esa and supplement  
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OK MA  
6-2-25

**SCOPE OF SERVICES**  
**FOR**  
**LANTANA ROAD AND JOG ROAD INTERSECTION**  
**IMPROVEMENTS**  
**PALM BEACH COUNTY PROJECT NO. 2024518**

**PREPARED FOR:**

Palm Beach County Engineering and Public Works Department  
Roadway Production Division  
2300 N. Jog Road, 3rd floor W., West Palm Beach, FL 33411



**PREPARED BY:**

MASSE CONSULTING SERVICES, LLC  
2101 Vista Parkway, Suite 237, West Palm Beach, 33411  
Mobile Phone: (561) 568-3197  
[bkhan@masseconsultingfirm.com](mailto:bkhan@masseconsultingfirm.com)

October 31, 2024  
Revised: January 14, 2025  
Revised: April 25, 2025  
Revised: May 14, 2025  
Revised: May 22, 2025

**SCOPE OF SERVICES**  
**LANTANA ROAD AND JOG ROAD INTERSECTION IMPROVEMENTS**  
**Palm Beach County Project No.: 2024518**

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**I. INTRODUCTION**

Palm Beach County (County) seeks to issue a Consultant Service Authorization (CSA) under the Intersection Improvements Annual Design Services Contract (R2023-0477) to Masse Consulting Services, LLC (Masse Consulting) for the intersection improvements at Lantana Road and Jog Road (project). The primary objective of the project includes adding a third eastbound (EB) left turn lane on Lantana Road on the west leg of the intersection. Masse Consulting, in collaboration with its sub-consultants, Pacifica Engineering Services, LLC, Simmons & White, Inc., and Ritzel-Mason, Inc., will provide professional engineering services to design and prepare construction plans for these improvements.

The addition of the third left turn lane will be accomplished as follows:

- **Lantana Road west leg (eastbound):** a third left turn lane will be added. Masse Consulting will develop three geometrical layout options as follows:
  - **Option 1:** Shift the existing median to one-half lane north and extend the median to the west on Lantana Road for the length required for the left turns. Right-of-way impacts are anticipated on both the north and south sides of Lantana Road.
  - **Option 2:** Shift the existing median to a full lane north and extend the median to the west on Lantana Road for the length required for the left turns. Right-of-way impacts are anticipated on the north side only.
  - **Option 3:** With the concept of Option 1 but with the inner left turn lane length will remain the current length, shorter than the other two left turn lanes. This is to avoid R/W impacts on the existing parking lot on the south side west of the parcel's driveway (Parcel PCN 00424439040010010).
  - The first median opening west of the intersection will be closed for all options.
  - No report or cost estimate will be provided for the geometrical layout development phase.
  - The County will decide the most suitable option based on the right-of-way (ROW) impacts to proceed with the design.
- **Jog Road north leg (northbound):**
  - To accommodate three left turn lanes from Lantana Road, the minimum pavement width required is 45 feet. The median will be evaluated to a minimum acceptable width and the pavement will be widen to the east in order to avoid impacting the existing transmission poles.
  - No shifting of the existing median of Jog Road is allowed to avoid impacting the existing curve of Jog Road.
- Maintain the current width of the bike lane along Jog Road to minimize right-of-way impacts. No bike lane will be provided on Lantana Road, as this does not currently exist.
- Maintain the current width of the sidewalk on Jog Road and Lantana Road.

The limits of the project will be as follows:

- **Lantana Road:** The project will extend approximately 1,500 feet west and 600 feet east of Jog Road.
- **Jog Road:** The project will extend approximately 900 feet north and 300 feet south of Lantana Road.

The design and construction documents will adhere to the following regulatory standards and guidelines:

- Palm Beach County Thoroughfare Roadway Design Procedures (January 2019)
- Palm Beach County Thoroughfare Roads Typical Sections (April 2018)



SCOPE OF SERVICES

LANTANA ROAD AND JOG ROAD INTERSECTION IMPROVEMENTS

Palm Beach County Project No.: 2024518

- Manual of Uniform Minimum Standards for Design, Construction, and Maintenance for Street and Highways, commonly known as the Florida Greenbook (2023 Edition)
- Lake Worth Drainage District Right-of-Way Operating Policies (December 13, 2023)
- FDOT Drainage Manual (January 2025) and all other applicable manuals
- FDOT FY 2024-25 Standard Plans for Road Construction
- SFWMD Environmental Resource Permit Information Applicants Handbook, vol 1 & 2, effective June 2024
- AASHTO “Geometrics Design of Highway and Streets”, the latest edition
- Manual on Uniform Traffic Control Devices (MUTCD), the latest edition

II. SCOPE OF SERVICES

The scope of services is categorized into three sections: Basic, Reimbursable, and Optional Services.

A. Basic Services

Masse Consulting will provide the following services:

1. General Tasks

- 1.1 Project Manager Progress Meetings: Four plans review meetings with the County (Typical Section & Masterplan, 65%, 96%, and 100% plans). The 35% submittal will be skipped.
- 1.2 Field Visits: Two field visits.
- 1.3 Post Design Services (see task description under Section C. Optional Services).

2. Roadway Analysis

The specific tasks include:

- 2.1 Typical Section Package
- 2.2 Horizontal/Vertical Master Design Files
- 2.3 Computation Book and Quantities
- 2.4 Cost Estimate

3. Roadway Plans

The roadway construction plans with the aerial background will be prepared in compliance with the approved Typical Section and Master Plans. The plans will be prepared on 11”x 17” at a scale of 1”= 40’ horizontally and 1”= 4’ vertically. The set of plans will include:

- 3.1 Key Sheet
- 3.2 Typical Sections
- 3.3 General Notes/Pay Item Notes/Summary of Quantities
- 3.4 Master Plan: Develop geometrical layouts to explore the three options described above
- 3.5 Profile Sheet
- 3.6 Plan Sheet
- 3.7 Driveway Profiles
- 3.8 Miscellaneous Details
- 3.9 Roadway Soil Survey Sheets
- 3.10 Cross Sections

4. Drainage Analysis

**SCOPE OF SERVICES**  
**LANTANA ROAD AND JOG ROAD INTERSECTION IMPROVEMENTS**  
**Palm Beach County Project No.: 2024518**

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This analysis involves designing systems for stormwater collection, treatment, and attenuation. The specific tasks include:

- 4.1 Drainage Map Hydrology
- 4.2 Design of Storm Drains
- 4.3 Compute Gutter Spread Analysis
- 4.4 French Drain Systems
- 4.5 Drainage Design Report: this includes showing computations for water quality and attenuation requirements. The following storm events will be analyzed: 3yr-1day, 10yr-1day, and 25yr-3day.

**5. Drainage Plans**

The specific tasks under Drainage Plans are:

- 5.1 Drainage Area Map
- 5.2 Drainage Structures
- 5.3 Miscellaneous Drainage Detail Sheets
- 5.4 SWPPP Sheets

**6. Permits and Environmental**

Permits from the South Florida Water Management District (SFWMD) and the Lake Worth Drainage District (LWDD) are required. The following services will be provided:

- 6.1 Pre-Application Meeting
- 6.2 Existing Permit Analysis
- 6.3 Complete and submit all required permit applications: this includes SFWMD and LWDD permit applications and response to requested additional information and obtain permits.

**7. Utilities**

Masse Consulting Services will assist the County in the utility coordination by providing plans to the County for initial utility contact and all other utility coordination, preparing meeting minutes, and following up on action items. In addition to these general tasks, Masse Consulting will provide the following services:

- 7.1 Develop Initial Utility Contact Plan
- 7.2 Incorporate existing utility facilities
- 7.3 Prepare utility conflict matrix
- 7.4 Identify and incorporate conflict resolutions
- 7.5 Attend three (3) Meetings

**8. Signing and Pavement Marking Analysis**

The tasks include:

- 8.1 Master Design Files
- 8.2 Quantities
- 8.3 Cost Estimate

**9. Signing and Pavement Marking Plans**

**SCOPE OF SERVICES**  
**LANTANA ROAD AND JOG ROAD INTERSECTION IMPROVEMENTS**  
**Palm Beach County Project No.: 2024518**

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Plans will adhere to the Palm Beach County Typical Details for Pavement Markings, Signing & Geometrics (T-P-24) and include:

- 9.1 Key sheet
- 9.2 General Notes/Pay Item Notes/Summary of Quantities
- 9.3 Plan Sheet

**10. Traffic Signal Services by Simmons & White, Inc.**

Services include preparing mast arms signalization plans and permitting. See attached scope of services from Simmons & White, Inc.

**B. Reimbursable Services**

**1. Reimbursable Expenses**

- a. Masse Consulting  
This includes reproduction costs (four sets in 11"x17" color) and permit fees (SFWMD and LWDD).
- b. Simmons & White  
Reproduction costs for plans and technical special provisions.

**2. Engineering Survey by Ritzel-Mason, Inc.**

See the attached scope of services from Ritzel-Mason, Inc.

**3. Geotechnical Services by Pacifica Engineering Services, LLC**

See attached scope of services from Pacifica Engineering Services, LLC.

**C. Optional Services**

**1. Post-Design Services by Masse Consulting**

Masse Consulting will provide post-design services during the construction phase, including responses to RFIs during the bid, shop drawing reviews, and clarification of plans.

**2. Optional Signal Services by Simmons & White, Inc.**

See the attached scope of services from Simmons & White, Inc.

**4. Optional SUE Services by Ritzel-Mason, Inc.**

See the attached scope of services from Ritzel-Mason, Inc.

**5. Optional Geotechnical Services by Pacifica Engineering Services, LLC**

See attached scope of services from Pacifica Engineering Services, LLC.

**III. DELIVERABLES AND SUBMITTALS**

Submittals will be provided for the Master Plan, 65%, 96%, 100%, and final design phases in compliance with the County's Thoroughfare Design Manual. The cost estimate will be provided at 65%, 96%, 100%, and final submittals. The phase submittals will be provided in PDF format. The final signed and sealed

**SCOPE OF SERVICES**  
**LANTANA ROAD AND JOG ROAD INTERSECTION IMPROVEMENTS**  
**Palm Beach County Project No.: 2024518**

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construction plans (4 sets in 11"x17") will be provided in both PDF (digitally signed and sealed) and hard copy formats.

**IV. SCHEDULE**

Final construction plans are expected to be completed within 12 months from the Notice to Proceed (NTP). A tentative schedule is enclosed.

**V. EXCLUDED SERVICES**

- Public Involvement and Outreach Meeting
- Traffic Control Plans (MOT)
- Utility Adjustment Plans
- ROW Acquisition Services

PROJECT SCHEDULE

For

Lantana Road and Jog Road Intersection Improvements

PALM BEACH COUNTY PROJECT NO.: 2024518

Notice to Proceed Date: 6/16/2025

ID	TASK NAME	START	END	DAYS	WORK DAYS
1	Data Collection				
1.1	Survey Data & Geotechnical Collection 1st Submittal	Mon 6/16/25	Mon 7/21/25	36	26
1.2	County review of Survey Data, 1st Review	Tue 7/22/25	Mon 8/11/25	21	15
1.3	Revise and Resubmit Survey Data 2nd Submittal	Tue 8/12/25	Thu 8/21/25	10	8
1.4	County review of Survey Data, 2nd Review	Fri 8/22/25	Thu 9/11/25	21	15
1.5	Survey Data Final Submittal	Fri 9/12/25	Mon 9/22/25	11	7
2	Phase IA				
2.1	Prepare Initial Utility Contact Plans	Fri 6/20/25	Tue 6/24/25	5	3
2.2	Distribution of Utility Plans & Receive Markups	Thu 6/26/25	Thu 7/17/25	22	16
3	PHASE IB-IC TYPICAL SECTION AND MASTERPLAN				
3.1	Prepare & Submit Typical Section and Master Plans	Mon 7/21/25	Thu 8/21/25	32	24
3.2	County Review Typical Section and Master Plans	Fri 8/22/25	Thu 9/11/25	21	15
4	65% Plans Phase II				
4.1	Prepare & Submit 65% Plans	Fri 9/12/25	Mon 10/27/25	46	32
4.2	County Review 65% Plans	Tue 10/28/25	Wed 11/19/25	23	17
4.3	Utility Coordination Meetings (1st Meeting)	Tue 11/25/25	Tue 11/25/25	1	1
4.4	Utility Pothole information provided by owners	Fri 11/28/25	Thu 1/08/26	42	30
4.5	Utility Coordination Meeting (2nd Meeting)	Tue 1/13/26	Tue 1/13/26	1	1
4.6	Prepare & Submit Permit Applications SFWMD and LWDD	Wed 1/14/26	Tue 1/27/26	14	10
5	96% Plans Phase III				
5.1	Prepare & Submit 96% Plans (w utility information)	Wed 1/28/26	Thu 3/12/26	44	32
5.2	County Review 96% Plans	Fri 3/13/26	Thu 4/02/26	21	15
5.3	Utility Coordination Meeting (Final Meeting)	Tue 4/07/26	Tue 4/07/26	1	1
6	100% Plans Phase IV				
6.1	Prepare/Submit 100% Plans	Wed 4/08/26	Thu 5/21/26	44	32
6.2	County Review 100% Plans	Fri 5/22/26	Thu 6/11/26	21	15
7	Final/Construction Plans				
7.1	Prepare & Submit Final/Construction Plans	Fri 6/12/26	Fri 7/10/26	29	21

Project Staff Hour Summary

Name of Project:		LANTANA ROAD AND JOG ROAD INTERSECTION IMPROVEMENTS					Consultant Name:		MASSE CONSULTING SERVICES, LLC	
PBC Project Number:		2024518					Consultant Number:		2024-115	
							Date:		4/25/2025	
Task Description		Total Staff Hours	Staff Categories					Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task
			Project Manager	Senior Engineer	Project Engineer	Engineering Intern	CADD/Computer Technician			
			\$67.00	\$62.00	\$47.00	\$33.00	\$30.00			
BASIC SERVICES										
1	General Tasks	29	15	7	7	0	0	29	\$1,768.00	\$60.97
2	Roadway Analysis	208	40	60	78	15	15	208	\$11,011.00	\$52.94
3	Roadway Plans	539	98	135	196	55	55	539	\$27,613.00	\$51.23
4	Drainage Analysis	120	25	43	36	10	6	120	\$6,543.00	\$54.53
5	Drainage Plans	92	18	23	16	18	17	92	\$4,488.00	\$48.78
6	Permits & Environmental	152	32	53	51	8	8	152	\$8,331.00	\$54.81
7	Utilities	90	18	28	34	5	5	90	\$4,855.00	\$53.94
8	Signing and Pavement Marking Analysis	49	14	13	12	5	5	49	\$2,623.00	\$53.53
9	Signing and Pavement Marking Plans	48	10	11	7	10	10	48	\$2,311.00	\$48.15
Total Staff Hours (Basic Services)		1327	270	373	437	126	121	1327		\$52.41
Total Staff Cost (Basic Services)			\$18,090.00	\$23,126.00	\$20,539.00	\$4,158.00	\$3,630.00		\$69,543.00	
OPTIONAL SERVICES										
1.3	Post Design	60	24	24	12	0	0	60	\$3,660.00	\$61.00
6.4	Palm Beach County Environmental Resources Management (ERM) Tree Permit	20	8	8	4	0	0	20	\$1,220.00	\$61.00
Total Staff Hours (Optional Services)		80	32	32	16	0	0	80		
Total Staff Cost (Optional Services)			\$2,144.00	\$1,984.00	\$752.00	\$0.00	\$0.00		\$4,880.00	

EBO SBE Calculation for this Fee Summary		SBE \$	Non-SBE \$
Prime-Masse Consulting Services, LLC		\$225,161.00	
Ritzel-Mason, Inc.		\$66,905.85	
Simmons & White, Inc.		\$116,564.00	
Pacifica Engineering Services, LLC		\$16,380.23	
Totals		\$425,011.08	\$0.00

SBE % Achieved	100.00%
SBE % Committed	85.00%

Basic Services:	
Salary Related Costs:	\$69,543.00
Contract Multiplier	3.00
Subtotal Basic Services (Masse Consulting Services, LLC):	\$208,629.00
Simmons & White, Inc.	\$54,108.00
Basic Services Total:	\$262,737.00

Reimbursables:	
Masse Consulting Services, LLC (Permits)	\$1,500.00
Masse Consulting Services, LLC (Reproduction/Prints)	\$392.00
Simmons & White, Inc. (Reproduction/Prints)	\$200.00
Pacifica Engineering Services, LLC	\$13,112.48
Ritzel-Mason, Inc.	\$38,830.29
Reimbursable Total:	\$54,034.77

Optional Services:	
Masse Consulting Services, LLC (Unloaded)	\$4,880.00
Contract Multiplier	3.00
Masse Consulting Services, LLC(Loaded)	\$14,640.00
Ritzel-Mason, Inc.	\$28,075.56
Pacifica Engineering Services, LLC	\$3,267.75
Simmons & White, Inc.	\$62,256.00
Optional Services Total:	\$108,239.31

GRAND TOTAL ESTIMATED FEES: \$425,011.08

Project Activity 1: General Tasks						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
1.1	Project Manager Progress Meetings	EA	4	4	16	Four meetings (4-PBC review meetings); 2 persons includes meeting preparation and meeting minutes
1.2	Field Visits	EA	2	6.5	13	Two field visits, includes travel time
1. General Tasks Total					29 ✓	
1.3	Post Design Services	LS	1	60	60	Optional services including RFIs during bidding & Construction, Pre-Construction Meetings, Shop drawing reviews

Project Activity 2: Roadway Analysis						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
2.1	Typical Section Package	EA	3	3	9	Three typical sections, 2-Lantana Rd, 1-Jog Road
2.2	Horizontal /Vertical Master Design Files	LS	1	167	167	For horizontal/vertical master design files
2.3	Computation Book and Quantities	EA	4	4	16	65%, 96%, 100% and final submittals
2.4	Cost Estimate	EA	4	4	16	65%, 96%, 100% and final submittals
2. Roadway Analysis Total					208	✓



Project Activity 3: Roadway Plans						
Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
3.1	Key Sheet	Sheet	1	6	6	Cover sheet
3.2	Typical Sections	EA	3	6	18	3 Typical Sections
3.3	General Notes/Pay Item Notes/Summary of Quantities	Sheet	2	12	24	General Notes, Pay Item Notes, and Summary of Quantities
3.4	Master Plan	LS	1	65	65	For alternative three options
3.5	Profile Sheet	Sheet	6	15	90	6 roadway profile sheets
3.6	Plan Sheet	Sheet	6	15	90	6 roadway plan sheets
3.7	Driveway Profiles	EA	10	3	30	10 driveways
3.8	Miscellaneous Details	EA	1	16	16	Cover all roadway details
3.9	Roadway Soil Survey Sheets	Sheet	1	2	2	Insert Soil Survey Sheets in Plan Set provided by geotechnical consultant
3.10	Cross Sections	EA	66	3	198	Cross sections @ 50' spacing
3. Roadway Plans Total					539	

Project Activity 4: Drainage Analysis						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Drainage Map Hydrology	LS	1	12	12	Includes all tasks related to setting up CADD design files, importing, and cleaning up the survey data
4.2	Design of Storm Drains	EA	9	3	27	Approximately 9 structures
4.3	Compute Gutter Spread Analysis	LS	1	20	20	
4.4	French Drain Systems	LS	1	21	21	For water quality and attenuation
4.5	Drainage Design Report	LS	1	40	40	Drainage calculations and report
4. Drainage Analysis Total					120✓	

Project Activity 5: Drainage Plans						
Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Drainage Area Map	Sheet	2	16	32	2 plan sheets, 1:200 scale, no profile
5.2	Drainage Structures	EA	9	3	27	
5.3	Miscellaneous Drainage Detail Sheets	Sheet	1	9	9	French drain details, control structure, etc.
5.4	SWPPP Sheets	Sheet	6	4	24	
5. Drainage Plans Total					92 ✓	

Project Activity 6: Permits and Environmental						
Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
6.1	Pre-Application Meeting	EA	2	4	8	Meeting to discuss LWDD and SFWMD permit requirements including preparing meeting agenda & minutes.
6.2	Existing Permit Analysis	LS	1	24	24	Research and review existing permits
6.3	Complete and Submit All Required Permit Applications	LS	1	120	120	SFWMD ERP (60 hrs), LWDD (60 hrs), including RAIs
6. Permits and Environmental Total					152 ✓	
6.4	Palm Beach County Environmental Resources Management (ERM) Tree Permit-Optional Services	LS	1	20	20	Optional Services for removal of trees
6. Optional Permits and Environmental Total					20 ✓	

Project Activity 7: Utilities						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Develop Initial Utility Contact Plan	EA	1	6	6	To be used by PBC to facilitate markups by facility owners
7.2	Incorporate existing utility facilities	LS	1	24	24	Utilities identified by PBC in markup request letter + updating plans to show any relocations to be done prior to construction by facility owner. Assume multiple markups per utility Level D and B
7.3	Utility Conflict Matrix	LS	1	24	24	Develop conflict matrix
7.4	Identify and incorporate conflict resolutions	LS	1	12	12	Update conflict matrix with resolutions (for 3 meetings)
7.5	Meetings	EA	3	8	24	3 meetings (65%, 96%, and 100%), 2 persons; includes meeting preparation, conduct meetings, and develop minutes
7. Utilities Total					90	

Project Activity 8: Signing & Marking Analysis						
Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.1	Master Design Files	LS	1	19	19	
8.2	Quantities	EA	3	6	18	65%, 96%, and 100% submittals
8.3	Cost Estimate	EA	3	4	12	65%, 96%, and 100% submittals
8. Signing and Pavement Marking Analysis Total					49	

Project Activity 9: Signing & Pavement Marking Plans						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
9.1	Key Sheet	Sheet	1	4	4	
9.2	General Notes/Pay Item Notes/Summary of Quantities	Sheet	1	8	8	
9.3	Plan Sheet	Sheet	6	6	36	
9. Signing and Pavement Marking Plans Total					48 ✓	

REIMBURSABLE EXPENSES (REPRODUCTION COSTS)					
Name of Project:		LANTANA ROAD AND JOG ROAD INTERSECTION IMPROVEMENTS			
PBC Project Number:		2024518			
PLANS	No of Sets	Pages Per Set	Cost Per Page	Total Units	Comments
Permit Plans	0	0		\$ -	
35% Plans	0	0		\$ -	
65% Plans	0	0		\$ -	
96% Plans	0	0		\$ -	
100% Plans	0	0		\$ -	
Final Plans	4	50	\$ 1.40	\$280.00	Color Copies (11"x17")
Computation Book and Quantities	2	24	\$ 0.25	\$ 12.00	B&W Copies (8.5" x 11")
Drainage Report	2	200	\$ 0.25	\$100.00	B&W Copies (8.5" x 11")
TOTAL				\$392.00	



REIMBURSABLE EXPENSES (PERMIT FEES)		
Name of Project: LANTANA ROAD AND JOG ROAD INTERSECTION IMPROVEMENTS		
PBC Project Number: 2024518		
Agency	Amount	Comments
South Florida Water Management District	\$ 1,200.00	Permit Modification (See enclosed SFWMD permit application fee schedule)
Lake Worth Drainage District	\$ 300.00	Permit Modification (See enclosed LWDD General Permit Fees)
Total Fee =	\$ 1,500.00	✓

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



Lake Worth Drainage District Right-of-Way Operating Policies  
Chapter 1 – General Provisions

1.3.3 General Permit Fees

Permit fees will be doubled if improvements are constructed or installed without a permit or backfilled without inspection.

General Fee Type	Fee		Notes
Minor Permit Modification(s)	\$ 300.00		Minor modifications and/or revisions made may be requested by the Applicant after the issuance of a Permit. Major modifications and/or revisions will be considered new permit applications and will be subject to the current fee schedule.
Permit Transfer to New Owner	\$ 300.00		Requests for permit transfer for change of property ownership or to transfer operation/management responsibilities must be submitted within 60 days of purchase of property by new owner or assumption of operation/management responsibilities to a new entity. A new application and applicable permit fees will be required beyond this timeframe.
Transfer to Operating Entity	\$ 300.00		Requests for permit conversion and transfer from construction phase to operation phase must be submitted within 60 days after LWDD has issued a Final Acceptance to the current property owner.
Permit Extension	\$ 300.00		Requests to extend a permit must be submitted prior to permit expiration; otherwise, permittee may be required to submit a new permit application subject to applicable permit fees.
Administrative Processing Fees	Clerical	\$ 35.00/hour	Permits requiring additional administrative work or legal review may be charged additional processing fees based upon the respective rates.
	Financial	\$ 55.00/hour	
	Legal Assistant	\$ 45.00/hour	
	Technical	\$ 65.00/hour	
	Attorney's Fees	\$ 225.00/hour	
Record Copy Fees	Photocopy Fees	\$ 0.15/one-sided 11" x 17" or smaller \$ 0.20/two-sided 11" x 17" or smaller	Requests for printed copies of permits, engineering plans or other associated correspondence will be subject to the respective charges.
	Engineering Plans - Black & White	\$ 1.00/copy one-sided larger than 11" x 17"	
	Engineering Plans - Color	\$ 5.00/copy one-sided larger than 11" x 17"	
	CD/DVD	\$ 10.00/disk	
Recording Fees	The LWDD may record a Notice of Permit with the Palm Beach County Clerk of Court for certain types of permits. In addition to the application and usage fees, recording fees based upon current fees charged by the Palm Beach County Clerk of Court will be assessed and collected prior to permit issuance.		



October 28, 2024  
Revised 01/10/2025  
Revised 03/31/2025  
Revised 05/21/2025

Masse Consulting Services, LLC  
2101 Vista Parkway, Suite 277  
West Palm Beach, Florida 33411

Attention: Mr. Basher Khan, P.E.

Reference: Lantana Road and Jog Road Intersection Improvements  
Palm Beach County Project No. 2024518  
Palm Beach County, Florida

Dear Mr. Khan:

We are pleased to submit the following proposal for professional services in connection with signal design for the above referenced intersection in Palm Beach County, Florida. Simmons & White, Inc., hereinafter referred to as the Consultant, proposes to furnish professional services for Masse Consulting Services, LLC, hereinafter referred to as the Client of the scope outlined below for fees stipulated herein.

#### Scope of Services

The project consists of adding a third left turn lane on Lantana Road (eastbound). A mast arm signal will replace the existing strain pole signal.

The Consultant will perform the following:

1. Mast Arm Signalization Plans – Prepare Signalization Plans in the standard plan format 11" x 17", and at a scale of 1" = 40' (1" = 20' scale will be provided only as requested). The traffic signals will be designed in accordance with Florida Department of Transportation (FDOT) and Palm Beach County design criteria in conjunction with criteria established in the Manual of Uniform Traffic Control Devices (MUTCD). Detailed information will include signal head type and locations, signal phasing/sequencing diagram, preemption timing chart, vehicle detection chart, pedestrian actuation, signal pole locations, stop bars, pedestrian crosswalks, traffic lane lines and other appropriate details.

Mr. Basher Khan, P.E.  
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Revised 05/21/2025

Scope of Services (Continued)

The Consultant will provide utility coordination as noted in Item 4. The Consultant will coordinate and depict on plans power service with Florida Power & Light (FPL).

The following sheets will comprise the Signalization Plan set:

- a. Key Sheet – A key sheet for the project will be prepared indicating the project number, County name, street name, Plan Index and other appropriate general construction data.
- b. Quantities Sheet – The quantities sheet will include a tabulation of items, descriptions and quantities of materials and type of work.
- c. General Notes – General notes referencing pay items or indicating special design information such as but not limited to controller operations or maintenance of traffic will be provided.
- d. Signalization Plans – All items necessary to construct the proposed signal modifications.
- e. Signalization Detail Sheets – Mast Arm and Conduit detail sheets required by maintaining agency for approval.

NOTE: This Item does not include the costs associated with signal timing, utility relocation coordination, preparing or submitting variances, or preparing easements and/or right-of-way takes. Signal timing is provided by Palm Beach County and not included on plans.

- 2. Structural Analysis for Mast Arms – MathCad Analysis and FDOT Structural Excel spreadsheets used in new FDOT Design Standard mast arms. Special designs are not included in this scope. This is for eight (8) mast arms. Luminares will be placed on the mast arms using standard FDOT uprights and configurations. At the request of the County no lighting analysis will be performed.

NOTE: Special designs are not included and will be additional services.

Mr. Basher Khan, P.E.  
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 Revised 05/21/2025

Scope of Services (Continued)

3. Utility Coordination – Utility Coordination is assumed to be led by the Client, including providing utilities layers in CADD that reflect underground and overhead facilities horizontally and vertically and performing soft digs where needed. Utility coordination for signal design shall include soft dig attendance, meeting attendance, reviewing utility markups for conflicts, and coordinating power service and overhead conflicts. Coordination for utility relocation is not included.

NOTE: Conflict matrix preparation is not included and will be prepared by Client.

4. Foundation Design for Deficient Soils (Optional) – In the event Geotechnical Testing reveals soils below the threshold required by the FDOT design criteria for standard mast arm foundations, foundations will be designed using the latest FDOT Mathcad program for mast arm design. The special foundation details will be added to the mast arm detail sheets.
4. Easement/Right-of-Way Coordination (Optional) – All work to prepare easements and/or right-of-way for the signals. Work includes but is not limited to creating easement limits, coordinating for approval, coordination and meeting with Palm Beach County Right-of-Way. This Item is Not to Exceed.
6. Conceptual Signal Plans – The Master Plan Phase will consider a full intersection expansion per meeting minutes dated October 2, 2024. Three signal concepts and cost estimates will be provided in this Phase.
7. Technical Special Provisions (Optional) – Prepare special provisions for bid purposes using latest County specifications. This Item is Not to Exceed.
8. As-Builts (Optional) – Prepare as-built plans of the mast arm signalization per Palm Beach County standards and format when construction is completed. Files must be in MicroStation as a deliverable. This Item is Not to Exceed.
9. Provide post design services as required to certify the completed project to the governing agencies, in general accordance with Attachment “A”, including meeting attendance, shop drawing review and miscellaneous coordination. This Item is Not to Exceed.
10. Reimbursable expenses for the cost of reproduction only. This Item is Not to Exceed.

Mr. Basher Khan, P.E.  
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Revised 05/21/2025

Scope of Services (Continued)

- 11. Revisions to the above based on Site Plan and/or Roadway, Signing and Pavement Marking Plan changes, governing agencies requests for additional information, or items beyond the Control of the Consultant will be provided on an as-needed basis at our current hourly billing rates, with a maximum specified limit. Anything above the upset limit will be confirmed with the County prior to work being completed by the Consultant.
- 12. Additional services requested by the County and agreed to by the Consultant such as, but not limited to, preparation of preliminary cost estimates, assistance with bidding, additional meetings, utility relocation plan preparation, special strain pole or foundation designs or details, or traffic control plans.

Items to be Furnished by the Client  
at No Expense to the Consultant

Assist the Consultant by placing at his disposal all available pertinent information relative to the project.

Furnish at no cost to the Consultant:

- 1. All permit application and governmental fees.
- 2. Specialized foundation and/or structural design, other than those listed herein.
- 3. Soil borings and analysis, other than those listed herein.
- 4. Construction testing, other than those listed herein.
- 5. Subsurface utility exploration, other than those listed herein.
- 6. Traffic counts, if required.
- 7. Lighting analysis.
- 8. Utility coordination.

Mr. Basher Khan, P.E.  
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Items to be Furnished by the Client  
at No Expense to the Consultant (Continued)

- 9. All surveying including, but not limited to, property, boundary (tied to State Plane Coordinates), easement, right of way, topographic, permanent reference monuments, permanent control points, utility surveys, property descriptions and construction staking, As-built surveys of constructed improvements, and existing utility locations on and adjacent to the property including but not limited to FP&L, AT&T, Cable T.V. & Gas. It is highly recommended that the Client’s Surveyor contact “No Cuts” prior to performing survey so that all existing franchise utilities can be shown on the survey to avoid field conflicts during construction. Elevations at new foundation locations and at roadway crowns where they intersection the mast arms.
- 10. All required right-of-way and/or easements for proposed (and existing if no easements exist) infrastructure (drainage, water, sewer as applicable) will be provided by the County’s Surveyor.

In addition to the above, other special data, all of which the Consultant will rely upon in performing services.

It is agreed and understood that the accuracy and veracity of said information and data may be relied upon by the Engineer without independent verification of the same.

Time of Performance

The Scope of Services will be completed within a time frame to be mutually agreed upon except for delays beyond the control of the Consultant.

Fees to be Paid

The Consultant shall be paid the following lump sum fees and hourly fee estimates for the Items in the Scope of Services:

Item 1 – Signalization Plans	=	\$ 35,133.00
Item 2 – Structural Analysis	=	\$ 11,385.00
Item 3 – Utility Coordination	=	\$ 7,590.00
Item 10 – Reimbursable Expenses	=	<u>\$ 200.00</u>
Basic Services Subtotal	=	\$ 54,308.00




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Fees to be Paid (Continued)

Item 4 – Foundation Design for Deficient Soils (Optional)	=	\$ 11,988.00
Item 5 – Easement/Right-of-Way Coordination (Optional) (Not to Exceed)	=	\$ 7,560.00
Item 6 – Conceptual Signal Plans (Optional)	=	<u>\$ 15,048.00</u>
Optional Services Subtotal	=	\$ 34,596.00
Item 7 – Technical Special Provisions (Optional) (Not to Exceed)	=	\$ 3,960.00
Item 8 – As-Builts (Optional) (Not to Exceed)	=	\$ 3,900.00
Item 9 – Post Design Shop Drawings, Meetings, Misc. Coordination (Optional) (Not to Exceed)	=	<u>\$ 19,800.00</u>
Post Design Services Subtotal	=	\$ 27,660.00
Total	=	\$116,564.00

Any applicable Florida State Sales Tax will be added to the above amounts.

**LIMITATION OF INDIVIDUAL LIABILITY: PURSUANT TO SECTION 558.0035 OF FLORIDA STATUTES, NO INDIVIDUAL EMPLOYEE OR AGENT OF SIMMONS & WHITE, INC. MAY NOT BE HELD PERSONALLY LIABLE FOR ANY NEGLIGENCE ARISING FROM THE PERFORMANCE OF SERVICES UNDER THIS AGREEMENT. THIS PROVISION IS A MATERIAL TERM OF THIS AGREEMENT.**

Very truly yours,  
  
SIMMONS & WHITE, INC.  
  
Kyle Duncan  
Vice President

sa: x:/docs/proposals/prop.khanlantanaandjogintersection.revIII

Schedule

Schedule Item	No. of Days	Latest Anticipated Completion
65% plans	45 days after Conceptual Plan approval	July 1, 2025
Turnaround on comments	45 days	August 16, 2025
96% plans	45 days	October 1, 2025
Turnaround on comments	45 days	November 16, 2025
100% plans	30 days	December 16, 2026

Note: The schedule does not take into consideration potential utility relocates, need for easements or right-of-way, special mast arm designs, or delays from FDOT permitting.

ATTACHMENT "A"

DESCRIPTION OF POST DESIGN SERVICES

1. Review shop drawings.
2. Coordinate, prepare and submit pre-construction meeting submittals to applicable governing agencies and attend pre-construction meeting.
3. Conduct semi-final and final inspection with Palm Beach County Construction Coordination/Engineering/Traffic.
4. Review job progress with County.
5. At the County's request, investigate matters which may arise during construction and provide recommendations, observations and other services as required.
6. Interpret the drawings.

SIMMONS & WHITE, INC.  
ESTIMATE OF WORK EFFORT FOR ENGINEERING  
Lantana Road and Jog Road  
Project 2024518  
TRAFFIC SIGNAL DESIGN

Total Contract Cost Computations	\$	18,036.00
Salary Cost Multiplier		3.00
Subtotal (Salary Related Cost)	\$	54,108.00
SUBTOTAL BASIC SERVICES		\$ 54,108.00
REIMBURSABLE SERVICES		
Reproduction		
Expenses 560 8.5" by 11" @ \$0.25	\$	140.00
Expenses 80 11" by 17" @ \$0.75	\$	60.00
SUBTOTAL REIMBURSABLE SERVICES		\$ 200.00
OPTIONAL SERVICES		
Deficient Soils	\$	11,988.00
Easement/ROW Coordination	\$	7,560.00
Conceptual Plans	\$	15,048.00
Post Design Services		
Technical Special Provisions (Simmons & White, Inc.)	\$	3,960.00
As-Builts (Simmons & White, Inc.)	\$	3,900.00
Shop Drawings, Meetings, Miscellaneous Coordination (Simmons & V	\$	19,800.00
SUBTOTAL (COST OF OPTIONAL SERVICES)		\$ 62,256.00
TOTAL=		\$ 116,564.00

SIMMONS & WHITE, INC.  
ESTIMATE OF WORK EFFORT FOR ENGINEERING  
Lantana Road and Jog Road  
TRAFFIC SIGNAL DESIGN

	Senior Engineer		Designer		ACTIVITY TOTAL
	MAN HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	MAN HOURS
SIGNAL PLANS	185.0	\$ 55.00	48.0	\$ 32.00	233.0
STRUCTURAL ANALYSIS	69.0	\$ 55.00		\$ 32.00	69.0
UTILITY COORDINATION	46.0	\$ 55.00	-	\$ 32.00	46.0
TOTALS	300.0		48.0		348.0

SIGNAL PLANS		\$ 10,175.00		\$ 1,536.00	
STRUCTURAL ANALYSIS		\$ 3,795.00		\$ -	
UTILITY COORDINATION		\$ 2,530.00		\$ -	
TOTALS		\$ 16,500.00		\$ 1,536.00	\$ 18,036.00

	BY ACTIVITY	COST FOR ACTIVITY	HOURLY RATE
SIGNAL PLANS	233.0	\$ 11,711.00	50.26
STRUCTURAL ANALYSIS	69.0	\$ 3,795.00	55.00
UTILITY COORDINATION	46.0	\$ 2,530.00	55.00
TOTALS	348.0	\$ 18,036.00	\$51.83

Average per hour

Lantana Road and Jog Road

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 1 - SIGNAL PLANS

TASK NO.	TASK	UNITS	NO. OF UNITS	HOURS/ UNITS	TOTAL HOURS	COMMENTS
1	Conceptual Plans	LS	1	0	0	see optional services
2	Intersection Field Data Collection	PI	1	10	10	
3	Utilities Coordination	LS	1	46	46	Per instructions during negotiations, Roadway will take lead. Hours are to assist
4	FPL Coordination	LS	1	25	25	
5	Reference and Master Signalization Design File	PI	1	50	50	
6	Reference and Master Interconnect Communication Design File	LS	1	8	8	
7	Overhead Street Name Design	EA	4	2	8	Does not include design in proprietary program. Only depiction of sign and size.
8	Pole Elevation/Structural Analysis	EA	1	48	48	8 mast arms
9	Traffic Signal Structural Report	LS	1	21	21	
10	Quantities	LS	3	6	18	3 submittals
11	Cost Estimate	LS	3	4	12	3 submittals
12	Special Details	LS	1	4	4	
Signalization Analysis Technical Subtotal					250	

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 1 - SIGNAL PLANS

TASK NO.	TASK	UNITS	NO. OF UNITS	HOURS/ UNITS	TOTAL HOURS	COMMENTS
13	Field Reviews	LS	2	4	8	
14	Technical Meetings	LS	5	4	20	
15	Quality Assurance/Quality Control	LS	0	0	0	
16	Palm Beach County Approval	LS	1	0	0	ed to Items 3,4,8,14 under 3/27/25 rev
17	Easement/ROW Coordination	LS	1	0	0	See optional services
Signalization Analysis Nontechnical Subtotal					28	
18	FDOT Permitting	LS	1	0	0	
Signalization Analysis Total					278	

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 2 - SIGNAL PLANS

TASK NO.	TASK	UNITS	NO. OF UNITS	HOURS/ UNITS	NO. OF SHEETS	TOTAL HOURS	COMMENTS
1.	Key Sheet	Sheet	1	4	1	4	
2.	Summary of Pay Items	Sheet	0	0	0	0	
3.	Tabulation of Quantities	Sheet	1	12	1	12	
4.	General Notes/Pay Item Notes	Sheet	1	6	1	6	
5.	Plan Sheet	Sheet	2	18	1	36	
6.	Interconnect Plans	Sheet	1	0	0	0	
7.	Traffic Monitoring Site	EA	0	0	0	0	
8.	Guide Sign Work Sheet	EA	1	0	0	0	
9.	Special Details	Sheet	1	0	0	0	Conduit/pull box sheet
10.	Pavement Marking Sheet	EA	0	0	0	0	
11.	Mast Arm Details Sheet	EA	2	6	2	12	2 sheets
12.	Strain Pole Schedule	PI	1	0	0	0	
TOTAL THIS SHEET					6	70	



HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 2 - SIGNAL PLANS

TASK NO.	TASK	UNITS	NO. OF UNITS	HOURS/ UNITS	NO. OF SHEETS	TOTAL HOURS	COMMENTS
13	TCP Signal (Temporary)	EA	0	0	0	0	
14	Temporary Detection Sheet	PI	0	0	0	0	
15	Utility Conflict Sheets	Sheets	0	0	0	0	No conflicts included
16	Interim Standards	LS	0	0	0	0	
Signalization Plans Technical Subtotal						70	
17	Quality Assurance/Quality Control		1	0	0	0	
18	Supervision		0	0	0	0	
Signalization Plans Total					6	70	

**SIMMONS & WHITE, INC.**  
**ESTIMATE OF WORK EFFORT FOR ENGINEERING**  
**Lantana Road and Jog Road (Project 2024518)**  
**TRAFFIC SIGNAL POST DESIGN SERVICES**  
**OPTIONAL SERVICES**

Total Contract Cost Computations	\$	9,220.00
Salary Cost Multiplier		3.00
Subtotal (Salary Related Cost)	\$	27,660.00
Subtotal (Cost Elements of Optional Activities)	\$	27,660.00
TOTAL OPTIONAL SERVICES	\$	27,660.00

<b>TOTAL=</b>	<b>\$</b>	<b>27,660.00</b>
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SIMMONS & WHITE, INC.  
ESTIMATE OF WORK EFFORT FOR ENGINEERING  
Lantana Road and Jog Road (Project 2024518)  
TRAFFIC SIGNAL POST-DESIGN SERVICES

	Senior Engineer		Designer		ACTIVITY TOTAL
	MAN HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	MAN HOURS
SHOP DRAWINGS	48.0	\$ 55.00	-	\$ 32.00	48.0
MEETINGS/COORDINATION	48.0	\$ 55.00	-	\$ 32.00	48.0
MISC COORDINATION	24.0	\$ 55.00	-	\$ 32.00	24.0
AS-BUILTS	12.0	\$ 55.00	20.0	\$ 32.00	32.0
TECH SPECIAL PROV	24.0	\$ 55.00	-	\$ 32.00	24.0
TOTALS	156.0		20.0		176.0

SHOP DRAWINGS		\$ 2,640.00		\$ -	
MEETINGS/COORDINATION		\$ 2,640.00		\$ -	
MISC COORDINATION		\$ 1,320.00		\$ -	
AS-BUILTS		\$ 660.00		\$ 640.00	
TECH SPECIAL PROV		\$ 1,320.00		\$ -	
TOTALS		\$ 8,580.00		\$ 640.00	\$ 9,220.00

	BY ACTIVITY	COST FOR ACTIVITY	HOURLY RATE	
SHOP DRAWINGS	48.0	\$ 2,640.00	55.00	
MEETINGS/COORDINATION	48.0	\$ 2,640.00	55.00	
MISC COORDINATION	24.0	\$ 1,320.00	55.00	
AS-BUILTS	32.0	\$ 1,300.00	40.63	
TECH SPECIAL PROV	24.0	\$ 1,320.00	55.00	
TOTALS	176.0	\$ 9,220.00	\$52.39	Average per hour

**SIMMONS & WHITE, INC.**  
**ESTIMATE OF WORK EFFORT FOR ENGINEERING**  
Lantana Road and Jog Road (Project 2024518)  
Project 2023823  
**TRAFFIC SIGNAL DESIGN**  
**OPTIONAL SERVICES**

Total Contract Cost Computations	\$	11,532.00
Salary Cost Multiplier		3.00
Subtotal (Salary Related Cost)	\$	34,596.00
SUBTOTAL OPTIONAL SERVICES		\$ 34,596.00

<b>TOTAL=</b>	<b>\$</b>	<b>34,596.00</b>
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SIMMONS & WHITE, INC.  
ESTIMATE OF WORK EFFORT FOR ENGINEERING  
Lantana Road and Jog Road (Project 2024518)  
TRAFFIC SIGNAL DESIGN  
OPTIONAL SERVICES

	Senior Engineer		Designer		ACTIVITY TOTAL
	MAN HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	MAN HOURS
DEFICIENT SOILS	68.0	\$ 55.00	8.0	\$ 32.00	76.0
EASEMENT/ROW COORDINATION	40.0	\$ 55.00	10.0	\$ 32.00	50.0
CONCEPTUAL PLANS	72.0	\$ 55.00	33.0	\$ 32.00	105.0
TOTALS	180.0		51.0		231.0

DEFICIENT SOILS (SWC MAST ARM)		\$ 3,740.00		\$ 256.00	
EASEMENT/ROW COORDINATION		\$ 2,200.00		\$ 320.00	
CONCEPTUAL PLANS		\$ 3,960.00		\$ 1,056.00	
TOTALS		\$ 9,900.00		\$ 1,632.00	\$ 11,532.00

	BY ACTIVITY	COST FOR ACTIVITY	HOURLY RATE	
DEFICIENT SOILS (SWC MAST ARM)	76.0	\$ 3,996.00	52.58	
EASEMENT/ROW COORDINATION	50.0	\$ 2,520.00	50.40	
CONCEPTUAL PLANS	105.0	\$ 5,016.00	47.77	
TOTALS	231.0	\$ 11,532.00	\$49.92	Average per hour



May 20, 2025

Basher Khan, PE  
Masse Consulting Services, LLC  
2101 Vista Parkway, Suite 277  
West Palm Beach, Florida 33411

Ritzel-Mason, Inc.  
  
5119 Beechwood Road  
Delray Beach, FL 33484  
  
Phone: 786.472.0358  
  
www.ritzel-mason.com

**Subject:** Fee Proposal for Surveying Services

**Project:** 2024518 – Lantana Road and Jog Road Intersection Improvements

Dear Mr. Khan:

Ritzel-Mason appreciates the opportunity to prepare this fee proposal for providing specific purpose / topographic services on the above referenced project. Ritzel-Mason is registered and licensed in the state of Florida. This letter will serve as our official scope of services and is accompanied by the included fee estimate. Ritzel-Mason has been requested by the Client to provide above ground topographic and right-of-way mapping services.

*This proposal is based on a field visit by Ritzel-Mason on October 3, 2024*

**Project Limits:** The limits of our Lantana Road and Jog Road., full right-of-way width, plus 25 feet of:

- 900 feet north along Jog Road
- 300 feet south along Jog Road
- 600 feet east along Lantana Road
- 1,500 feet west along Lantana Road

from the center of the intersection in Greenacres, Florida as shown in the attached exhibit.

**Scope of Reimbursable Services:** Ritzel-Mason proposed **Specific Purpose Survey / Topographic Survey** as described below:

Existing horizontal and vertical control will be recovered and/or set as needed. Control will be referenced to the Palm Beach County Control Network which is the NAD83/90 and NAVD88 datums. A closed level run will be performed through set control points.

Above ground data will be obtained to create a surface of the existing conditions. Topography will include visible fixed improvements such as bank lines, natural ground, curbing, asphalt, above ground utilities, medians, sidewalks, curb cuts, intersecting driveways, and aprons, etc. up to 25 feet beyond the right-of-way. Sufficient data will be obtained to create a DTM surface. Grade breaks will be included. The maximum interval between points on a straight line will be 50 feet and 25 feet on a curve.

2024518 Lantana Road and Jog Road Intersection Improvements

May 20, 2025



Trees 4-inch DBH and greater will be located. Finish floor elevations out to 1<sup>st</sup> adjacent building will be shown. Maintained water elevation and edge of water for ponds are ditches are included.

Horizontal control points associated with the baseline will be set at the beginning and end of each baseline and at PCs, PTs, PIs where applicable no more than 1000 feet apart. Alternate monumentation may be used for horizontal control in areas where the baseline is not feasible to occupy due to traffic conditions. Vertical control points will be set no more than 600 feet apart outside of the construction limits with stationing, offsets, elevations with state plane coordinates at each location relative to the baseline.

A Specific Purpose / Topographic Survey will be prepared and will meet and be certified to the applicable portions of the Standards of Practice as set forth in the Florida Board of Professional Surveyors and Mappers in rule 5J-17.050-0.52, Florida Administrative Code, pursuant to Chapter 472.027, Florida Statutes and this Appendix C and D of the Palm Beach County Roadway Design Procedures (January 2019), codes, rules and Statues governing Surveying and Mapping. 11"x17" sheets at 1"=40' scale will be prepared.

Horizontal control points associated with the baseline will be set at the beginning and end of each baseline and at PCs, PTs, PIs where applicable no more than 600 feet apart. Alternate monumentation may be used for horizontal control in areas where the baseline is not feasible to occupy due to traffic conditions. Vertical control points will be set no more than 600 feet apart outside of the construction limits with stationing, offsets, elevations with state plane coordinates at each location relative to the baseline.

Ritzel-Mason proposes **Cross Sections** as described below:

- 50-foot interval cross sections will be shown on the survey, including any ditches and swales. Minimum text size for cross section elevations will be reduced in order to fit the data on 1"=40' sheets.

Ritzel-Mason proposes **drainage services** as described below:

Ritzel-Mason will locate drainage features and pipes including invert elevations, top of structure elevations, bottom of structure elevations, pipe directions, pipe connectivity, pipe sizes and pipe materials. Upstream and downstream structures will be located.

Ritzel-Mason proposes **right-of-way and baseline services** as described below:

Ritzel-Mason will provide right-of-way and baseline on the project limits. If a historic baseline does not exist, one will be created (established from south to north and west to east). Information will be based on readily available data such as plats, deeds, and property appraiser website. Property lines will be shown. Field monumentation will be searched and located. Road R/W reports will be reviewed and processed, if provided by Palm Beach County. The baselines will be staked in the field. The County will be advised of any apparent missing right-of-way documentation or of any apparent gaps or overlaps in the right-of-way per the documents provided. State plane coordinates and ties to section corners or geodetic control points will be added at the beginning and ending of the baseline.

**Optional Services Scope of Services:** Ritzel-Mason will complete a SUE investigation in general accordance with ASCE Standard 38-02: Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data. *Utility designates will be limited to the test hole location for pin pointing purposes only.* Ritzel-Mason will search for the existence and approximate location of subsurface utilities within the project limits except those listed under Exclusions below. The specific work includes:

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2024518 Lantana Road and Jog Road Intersection Improvements

May 20, 2025



- A. Records Research through customary means:
  - a. Identify utilities anticipated to exist in the project limits.
  - b. Document responses and compile record information.
- B. Field Investigation using appropriate surface geophysical techniques:
  - a. Documented conductive utilities – designate with the objective of achieving Quality Level B for conductive utilities. Where not possible, lower Quality Levels will be established. Utilities of non-conductive material installed with serviceable tracer wire or tape will be considered conductive. It is important to note, however, that the depicted location of such utilities represents the tracer rather than the actual utility.
  - b. Documented non-conductive utilities – investigate with the objective of achieving Quality Level C. Where not possible, depict at Quality Level D.
  - c. Undocumented utilities – are those utilities that may exist in the project area that have not been previously identified, are not discovered during records research, and for which there is no prior knowledge. Ritzel will use our standard search protocol in an attempt to determine the existence and approximate location of undocumented utilities; however, this work cannot guarantee that all utilities will be found and depicted.
- C. Quality Level exceptions – the following utilities will be investigated with the objective of achieving the specific Quality Level stated:
  - a. Gravity sanitary sewers – Quality Level C.
  - b. Non-conductive utilities with ready access allowing sonde, metal tape or detection rod insertion and tracking – Quality Level B.
  - c. Subaqueous crossings – Quality Level D.
- D. Exclusions – the following utilities and/or components will not be investigated:
  - a. Storm sewers and drains.
  - b. Utility vault or manhole interiors
  - c. Service lines
  - d. Traffic control loops
  - e. Street light and signage wiring
  - f. Irrigation lines
  - g. Cathodic protection
  - h. Thrust blocks.
  - i. Septic systems.
  - j. Underground storage tanks, piping and wiring.
  - k. Overhead utilities
- E. Vacuum Excavation – Test holes
  - a. Ritzel-Mason proposes to use vacuum excavation equipment to perform up to **30 test holes** at locations as directed by the client. Vacuum excavation methods will enable Ritzel-Mason to visualize

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2024518 Lantana Road and Jog Road Intersection Improvements

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the utility in question for a high degree of certainty. Ritzel-Mason will make every effort to vacuum excavate to a depth of eight (8) feet using high pressure air methods. However, vacuum excavation will cease when these methods are unable to progress below refusal, such as bedrock or flowable fill. Ritzel-Mason will not employ destructive methods, such as jackhammers or chipping hammers, to break up bedrock or other refusal within a test hole due the high risk of damage to buried utilities and safety risk to employees. Utilities deeper than 8 feet may not be found.

- b. At the completion of each excavation Ritzel-Mason will place an iron rod and cap or a nail and disk at the test hole location and further identify the test hole location with paint marks on the ground surface. We will backfill with native material and compact the soil in 6"-12" lifts as well as provide a permanent restoration of the pavement or ground surface within the limits of the original excavation. We will record maximum depth of the test hole as well as vertical depth of any utility encountered. If a utility is encountered, we will also provide utility type, size, shape, material and orientation to the extent we are able to ascertain this information
- c. Ritzel-Mason will notify Sunshine 811 2 full business days in advance of excavation. Ritzel-Mason will mark the conductive utilities by inductive methods utilizing electromagnetic geophysical prospecting equipment. Known non-conductive utilities will be marked utilizing 2-D Radar (GPR).
- d. Due to mobilization costs a minimum of 4 test holes can be requested or mobilization costs will be charged.
- e. Ritzel-Mason cannot provide vacuum excavation in areas where obstructions, such as unmovable vehicles or storage exist.
- f. Specific pin point (non-linear) requests such as tees or end caps may require 1 to 3 test holes.

Ritzel-Mason proposes **sketch and legal services** as described below:

Ritzel-Mason will create a sketch and legal description of twelve (12) parcels (6 TCE and 6 permanent easements) as directed

**Client Responsibilities:**

- Provide or facilitate access to project area for field investigations.

**Deliverables (Reimbursable Services):**

- DGN (SURVRD01.dgn) and PDF (digitally signed) of Specific Purpose/Topographic Survey, 11x17" sheets at 1"=40' scale
- Project Network Control Sheet and reference point sheets
- Digitally signed Specific Purpose/Topographic Survey
- DTM DGN and XML
- An ASCII file of points (x,y,z)

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2024518 Lantana Road and Jog Road Intersection Improvements

May 20, 2025



**Schedule for Reimbursable Services:**

We propose to mobilize for this work 7 business days from receipt of this proposal duly signed and barring weather and any unforeseen condition. The work will be submitted 25 business days from receipt of this proposal duly signed and barring weather and any unforeseen condition.

**Deliverables (Optional Services):**

- Utility designates added to SURVRD01
- Test hole Data sheets
- DGN and PDF of Verified Utility Locates
- DGN and PDF of 6 TCE sketch and legals
- DGN and PDF of 6 permanent easement sketch and legals

**Fees:** See attached spreadsheet.

**Basis:** The fees listed above are based on Ritzel-Mason's crews being able to work during the hours of 7:00am to 6:00pm and being granted access to the site. Ritzel-Mason is equipped to supply minor MOT services. *MOT services beyond the included minor MOT services are not anticipated.* Ritzel-Mason's field crews and equipment are not equipped or prepared to work in any area that possibly are, or may have been, contaminated with hazardous materials at any time.

Again, we appreciate the opportunity to provide our surveying services for Masse Consulting. Please call me directly at 786.472.0358, if you have any questions or comments. We look forward to beginning work on this project upon receiving your authorization to proceed.

Sincerely,

Dennis Ritzel, PSM  
Director of Business Operations  
786.472.0358  
Email: [dennis@ritzel-mason.com](mailto:dennis@ritzel-mason.com)

2024518 Lantana Road and Jog Road Intersection Improvements

May 20, 2025



Exhibit



Estimate of Work Effort and Cost

Name of Project:		Lantann Road and Jog Road				Consultant Name: Ritzel-Mason, Inc.				
PBC Project Number:		2024518				Consultant Number: N/A				
						Date: 5/20/2025				
Task Description		Total Staff Hours	Reimbursable Services					Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task
			Project Surveyor	Survey-CADD Technician	3 Man Crew SUE	3 Man Crew Survey	2 Man Crew Survey			
			\$50.00	\$33.00	\$73.50	\$66.75	\$55.00			
REIMBURSABLE SERVICES (Ritzel-Mason, Inc.)										
14.00	Survey - Field	147.00	5.00	0.00	0.00	142.00	0.00	147.00	\$ 9,728.50	\$ 66.18
15.00	Survey - Plans	152.00	18.00	134.00	0.00	0.00	0.00	152.00	\$ 5,322.00	\$ 35.01
Total Staff Hours (Reimbursable Services)		299.00	23.00	134.00	0.00	142.00	0.00	299.00		
Total Staff Cost (Reimbursable Services)			\$1,150.00	\$4,422.00	\$0.00	\$9,478.50	\$0.00		\$15,050.50	\$50.34
							Reimbursable Services:			
							Reimbursable Services (Ritzel-Mason, Inc.)		\$15,050.50	
							Raw Rate Reimbursable Services Total:		\$ 15,050.50	
							Loaded Fees:			
							Raw Rate Reimbursable Services Total:		15050.50	
							Multiplier Rate:		2.58	
							Loaded Total:		\$ 38,830.29	
							Grand Total Estimated Fees (Ritzel-Mason, Inc.):		\$ 38,830.29	

Project Activity 14: Survey - Field (Reimbursable Services)						
Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.1	Horizontal Project Control (HPC)					
	2-Lane Roadway	LM	0.54	15.00	8	Establish horizontal control. Establish secondary control points. Redundant RTK VRS GPS. Datum will be NAD 83/90.
	Multi-lane Roadway	LM	0.00	0.00	0	
14.2	Vertical PC / Bench Line					
	2-Lane Roadway	LM	2.00	8.00	16	Verify vertical on PNC sheet control. Established vertical data on control. NAVD88.
	Multi-lane Roadway	LM	0.00	0.00	0	
14.3	Reference Points					
	2-Lane Roadway	EA	10.00	0.50	5	Set baseline reference points
	Multi-lane Roadway	EA	0.00	0.00	0	
14.4	Baseline Layout	LM	0.54	15.00	8	Establish baseline and rights-of-way on street and lands. The baselines will be staked in the field.
14.5	Section, Subdivision & Property Ties	EA	6.00	2.00	12	Locate centerlines and property corners
14.6	Topography/DTM (3D)	LM	0.54	72.00	39	full right-of-way width, plus 25 feet of: 900 feet north, 300 feet south, 600 feet east, 1500 feet west
14.7	Cross Sections	EA	60.00	0.25	15	Perform 100 foot sections. 60 cross sections, R/W to R/W + 25 feet.
14.8	Side Street Surveys	LM	0.00	0.00	0	
14.9	SUE	EA	0.00	0.00	0	
14.10	Locates - Pothole	EA	0.00	2.00	0	
14.11	Outfall Survey	LM	0.00	0.00	0	
14.12	Drainage Survey	EA	31.00	0.75	23	Drainage structures
14.13	Bridge Survey	EA	0.00	0.00	0	
14.14	Canel Survey	LM	0.00	0.00	0	
14.15	Channel Survey and Soundings	LS	0.00	0.00	0	
14.16	Pond Site Survey	EA	0.00	0.00	0	
14.17	Jurisdictional Line Survey	LS	0.00	0.00	0	

Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.18	Tree Survey	EA	190.00	0.10	19	Locate 4-inch and greater trees R/W to R/W + 25 feet
14.19	Route/Corridor Survey	LM	0.00	0.00	0	
14.20	Boundary Survey	LS	0.00	0.00	0	
14.21	Topographic Survey	LS	0.00	0.00	0	
14.22	Specific Purpose Survey	LS	0.00	0.00	0	
14.23	Hydrographic Survey	LS	0.00	0.00	0	
14.24	Quantity Survey	LS	0.00	0.00	0	
14.25	Record/As-Built Survey	LS	0.00	0.00	0	
14.26	R/W Staking					
	Parcel	EA	0.00	0.00	0	
	R/W Line	LM	0.00	0.00	0	
14.27	Meetings	EA	1.00	2.00	2	Kick off meeting
14. Survey - Field Total					147	

Project Activity 15: Survey Plans (Reimbursable Services)						
Task No.	Task	Units	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
15.1	Alignment	EA	1.00	17.00	17	Establish baseline and rights-of-way on street and lands.
15.2	Section and 1/4 Section Lines	EA	1.00	6.00	6	Search and process section corners.
15.3	Subdivisions / Property Lines	EA	1.00	5.00	5	Search and process property corners.
15.4	Existing R/W	EA	1.00	14.00	14	Establish existing right-of-way on street and lands
15.5	Topography	LM	0.54	57.00	31	Process topography and cross sections of intersection
15.6	Parent Tract Properties/Existing Easements	EA	0.00	0.00	0	
15.7	Title Review	LS	1.00	6.00	6	Road RW report review
15.8	Jurisdictional/Agency Lines	LM	1.00	0.00	0	
15.9	Survey Key Sheet	Sheet	1.00	10.00	10	
15.10	Survey Detail & Legend Sheet	Sheet	1.00	13.00	13	
15.11	Reference Point Sheet	Sheet	0.00	0.00	0	
15.12	Project Control Sheet	Sheet	1.00	10.00	10	Prepare PNC Sheets
15.13	Specific Purpose & Topographic Survey	Sheet	4.00	10.00	40	Prepare Specific Purpose & Topographic Survey
15.14	Boundary Survey	EA	0.00	0.00	0	
15.15	Technical Meetings	EA	0.00	4.00	0	
15. Survey Plans Total					152	✓

Name of Project:			Lantana Road and Jog Road				Consultant Name: Ritzel-Mason, Inc.					
PBC Project Number:			2024518				Consultant Number: N/A					
							Date: 1/13/2025					
Task Description			Total Staff Hours	Optional Services					Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task	
				Project Surveyor	Survey-CADD Technician	3 Man Crew SUE	3 Man Crew Survey	2 Man Crew Survey				
				\$50.00	\$33.00	\$73.50	\$66.75	\$55.00				
OPTIONAL SERVICES (Ritzel-Mason, Inc.)												
14.00	Survey - Field		75.00	0.00	3.00	72.00	0.00	0.00	75.00	\$ 5,391.00	\$ 71.88	
15.00	Survey - Plans		153.00	26.00	127.00	0.00	0.00	0.00	153.00	\$ 5,491.00	\$ 35.89	
Total Staff Hours (Optional Services)			228.00	26.00	130.00	72.00	0.00	0.00	228.00			
Total Staff Cost (Optional Services)				\$1,300.00	\$4,290.00	\$5,292.00	\$0.00	\$0.00		\$10,882.00	\$47.73	
								Optional Services:				
								Optional Services (Ritzel-Mason, Inc.)			\$10,882.00	
								Raw Rate Optional Services Total:			\$ 10,882.00	
								Loaded Fees:				
								Raw Rate Optional Services Total:		10882.00		
								Multiplier Rate:		2.58		
								Loaded Total:		\$ 28,075.56		
								Grand Total Estimated Fees (Ritzel-Mason, Inc.):		\$ 28,075.56		



Project Activity 14: Survey - Field						
Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.1	Horizontal Project Control (HPC)					
	2-Lane Roadway	LM	0.54	0.00	0	
	Multi-lane Roadway	LM	0.00	0.00	0	
14.2	Vertical PC / Bench Line					
	2-Lane Roadway	LM	2.00	0.00	0	
	Multi-lane Roadway	LM	0.00	0.00	0	
14.3	Reference Points					
	2-Lane Roadway	EA	10.00	0.00	0	
	Multi-lane Roadway	EA	0.00	0.00	0	
14.4	Baseline Layout	LM	0.54	0.00	0	
14.5	Section, Subdivision & Property Ties	EA	6.00	0.00	0	
14.6	Topography/DTM (3D)	LM	0.54	0.00	0	
14.7	Cross Sections	EA	60.00	0.00	0	
14.8	Side Street Surveys	LM	0.00	0.00	0	
14.9	SUE	EA	30.00	0.50	15	GPR pinpointing (utility designates) for 30 test holes
14.10	Locates - Pothole	EA	30.00	2.00	60	Stake 30 TH locations, Notify Sunshine 811, Vacuum excavate, Survey 30 THs.
14.11	Outfall Survey	LM	0.00	0.00	0	
14.12	Drainage Survey	EA	31.00	0.00	0	
14.13	Bridge Survey	EA	0.00	0.00	0	
14.14	Canal Survey	LM	0.00	0.00	0	
14.15	Channel Survey and Soundings	LS	0.00	0.00	0	
14.16	Pond Site Survey	EA	0.00	0.00	0	
14.17	Jurisdictional Line Survey	LS	0.00	0.00	0	

Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.18	Tree Survey	EA	190.00	0.00	0	
14.19	Route/Corridor Survey	LM	0.00	0.00	0	
14.20	Boundary Survey	LS	0.00	0.00	0	
14.21	Topographic Survey	LS	0.00	0.00	0	
14.22	Specific Purpose Survey	LS	0.00	0.00	0	
14.23	Hydrographic Survey	LS	0.00	0.00	0	
14.24	Quantity Survey	LS	0.00	0.00	0	
14.25	Record/As-Built Survey	LS	0.00	0.00	0	
14.26	R/W Staking					
	Parcel	EA	0.00	0.00	0	
	R/W Line	LM	0.00	0.00	0	
14.27	Meetings	EA	1.00	2.00	0	
14. Survey - Field Total					75	

Project Activity 15: Survey Plans						
Task No.	Task	Units	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
15.1	Alignment	EA	0.00	17.00	0	
15.2	Section and 1/4 Section Lines	EA	0.00	6.00	0	
15.3	Subdivisions / Property Lines	EA	0.00	5.00	0	
15.4	Existing R/W	EA	0.00	14.00	0	
15.5	Topography	LM	0.00	57.00	0	
15.6	Parent Tract Properties/Existing Easements	EA	0.00	0.00	0	
15.7	Title Review	LS	0.00	6.00	0	
15.8	Jurisdictional/Agency Lines	LM	0.00	0.00	0	
15.9	Survey Key Sheet	Sheet	0.00	10.00	0	
15.10	Survey Detail & Legend Sheet	Sheet	0.00	13.00	0	
15.11	Reference Point Sheet	Sheet	30.00	0.35	11	Prepare test hole data sheets
15.12	Project Control Sheet	Sheet	1.00	10.00	10	Verified Utility Locate sheet for 30 test holes
15.13	Specific Purpose & Topographic Survey	Sheet	30.00	0.40	12	Update specific purpose survey with test hole locations
15.14	Boundary Survey	EA	12.00	10.00	120	Prepare sketch and legal (12)
15.15	Technical Meetings	EA	0.00	4.00	0	/
15. Survey Plans Total					153	✓



Revised January 9, 2025  
October 16, 2024

**Masse Consulting Services, LLC**  
2101 Vista Parkway, Suite 277  
West Palm Beach, FL 33411

Attention: Mr. Basher Khan, P.E.

Re: Scope of Services for Geotechnical Engineering Services  
**Lantana Road and Jog Road Intersection Improvements**  
Near Lantana Road and Jog Road  
Greenacres, Florida 33467  
PBC Project No.: 2024518  
PACIFICA Proposal No.: 610-12019709

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Dear Mr. Khan:

In accordance with your email and the survey provided, **Pacifica Engineering Services, LLC (PACIFICA)**, is pleased to submit this scope of services 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 estimates, and anticipated schedules.

It is understood that plans for this project consist of a roadway widening along eastbound Lantana Road and northbound Jog Road and intersection improvements at the Lantana Road and Jog Road intersection in Greenacres, Florida.

#### **GEOTECHNICAL SCOPE OF SERVICES**

Based on the requested scope, PACIFICA proposes to perform the following geotechnical field services:

##### **Basic Services**

- fourteen (14) Standard Penetration Test (SPT) borings to a depth of 10 feet below existing grades; and
- two (2) percolation tests in accordance with SFWMD procedures at depths of 10 feet below grade at the requested locations.

##### **Optional Services**

- two (2) Standard Penetration Test (SPT) borings to a depth of 30 feet below existing grades at the NE and SW corners of the Lantana Road and Jog Road intersection.

The SPT borings will be performed with truck-mounted machinery using rotary drilling procedures. 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 the commencement of the geotechnical field exploration. Therefore, PACIFICA will contact "Sunshine One-Call" Service to obtain underground public utility clearance. PACIFICA understands that private utilities will be marked by others prior to each mobilization.

Due to the boring locations being in or in close proximity to the roadway, Maintenance of Traffic (MOT) will be needed to perform the geotechnical scope of work. If required, PACIFICA will submit MOT plans with an estimated schedule in accordance with FDOT standards for **PBC** approval prior to the start of fieldwork. PACIFICA will use FDOT Maintenance of Traffic (MOT) Plans Design Standards Index Series 600 when developing MOT plans.

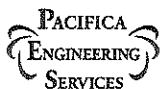
#### **GEOTECHNICAL REPORT DELIVERABLES**

After the geotechnical field exploration is completed, a geotechnical engineer will review the soil samples and select samples will be tested for physical properties such as gradation, moisture content and organic content, if deemed necessary. The results of the geotechnical exploration will be transmitted in a report which will specifically contain the information listed below:

1. a location plan of the site showing the location of the soil borings and percolation tests;
2. logs of the exploratory borings, which furnish the results of the borings and SPT sampling;
3. results of the percolation tests, including hydraulic conductivity "k" values;
4. the existence of organic soils or any other soil conditions;
5. groundwater readings during the time of the field exploration;
6. soil/rock recommendations for mast arm foundation design;
7. on-site soil suitability; and
8. recommendations for the preparation of the subgrade and paving recommendations.

#### **GEOTECHNICAL SCHEDULE**

Our study can begin one day after we receive authorization to proceed. We will start drilling after public underground utilities have been located and identified, which may take 2-4 business days. The geotechnical field exploration should be completed within 3 business days. Laboratory testing should be completed within one week following final field demobilization. The written report of the subsurface exploration will be available within two weeks following the completion of final laboratory testing. We estimate that our study will be completed within 4 weeks of your notice to proceed. If the optional services are approved simultaneously with the basic services, the project schedule will not be affected.



# Lantana Road and Jog Road Intersection Improvements

Proposed Boring Location Map

## Legend

- Proposed Optional SPT Boring @ 30 FT
- Proposed SPT Boring @ 10 FT
- Proposed SPT Boring @ 10 FT and Percolation Test



COST BREAKDOWN				
09-Jan-25				
DESCRIPTION	UNIT	# OF UNITS	UNIT RATE	TOTAL
<b>I. FIELD EXPLORATIONS</b>				
Mobilization of Drill Equipment (50-mile travel)	each	1.0	\$420.00	\$420.00
Senior Engineering Technician (Site Reconnaissance, Boring Layout and Underground Utility Clearance) (Raw Rate: \$31.00*3)	hour	4.0	\$93.00	\$372.00
Standard Penetration Tests - Truck Rig (0' - 50')	feet	140.0	\$16.00	\$2,240.00
Grout Bore Hole (0 to 50 Feet)	feet	140.0	\$6.40	\$896.00
Casing (0 to 50 Feet)	feet	0.0	\$10.00	\$0.00
Percolation Test	each	2.0	\$390.00	\$780.00
<b>II. SOIL &amp; AGGREGATE TESTING</b>				
Organic Content Test	each	3.0	\$55.00	\$165.00
Natural Sample Moisture Content	each	3.0	\$20.00	\$60.00
Grain size determination: Full grain size (8 sieves)	each	3.0	\$78.00	\$234.00
Grain size determination: Wash through (#200)	each	3.0	\$60.00	\$180.00
<b>III. ENGINEERING SERVICES (MULTIPLIER: 3)</b>				
Principal Engineer, P.E. (Raw Rate: \$84.10*3)	hour	1.0	\$252.30	\$252.30
Senior Geotechnical Engineer (Raw Rate: \$69.3*3)	hour	10.0	\$207.90	\$2,079.00
Drafter / CADD (Raw Rate: \$31.35*3)	hour	6.0	\$94.05	\$564.30
<b>IV. REIMBURSABLES</b>				
Ground Penetration Radar (GPR)	day	1.0	\$1,500.00	\$1,500.00
Maintenance of Traffic (MOT) including MOT Plan	day	1.0	\$1,450.00	\$1,450.00
MOT Plan and MOT Permitting	hour	4.0	\$180.00	\$720.00
Advance MOT Technician	hour	12.0	\$99.99	\$1,199.88
<b>ESTIMATED GEOTECHNICAL BASIC FEE FOR THE INTERSECTION IMPROVEMENT SERVICES</b>				<b>\$13,112.48</b>

COST BREAKDOWN				
09-Jan-25				
DESCRIPTION	UNIT	# OF UNITS	UNIT RATE	TOTAL
<b>I. FIELD EXPLORATIONS</b>				
Senior Engineering Technician (Site Reconnaissance, Boring Layout and Underground Utility Clearance) (Raw Rate: \$31.00*3)	hour	1.0	\$93.00	\$93.00
Standard Penetration Tests - Truck Rig (0' - 50')	feet	60.0	\$16.00	\$960.00
Grout Bore Hole (0 to 50 Feet)	feet	60.0	\$6.40	\$384.00
Casing (0 to 50 Feet)	feet	60.0	\$10.00	\$600.00
<b>II. SOIL &amp; AGGREGATE TESTING</b>				
Organic Content Test	each	1.0	\$55.00	\$55.00
Natural Sample Moisture Content	each	1.0	\$20.00	\$20.00
Grain size determination: Full grain size (8 sieves)	each	1.0	\$78.00	\$78.00
Grain size determination: Wash through (#200)	each	1.0	\$60.00	\$60.00
<b>III. ENGINEERING SERVICES (MULTIPLIER: 3)</b>				
Senior Geotechnical Engineer (Raw Rate: \$69.3*3)	hour	3.0	\$207.90	\$623.70
Drafter / CADD (Raw Rate: \$31.35*3)	hour	1.0	\$94.05	\$94.05
<b>IV. REIMBURSABLES</b>				
Ground Penetration Radar (GPR)	hour	1.0	\$300.00	\$300.00
<b>ESTIMATED GEOTECHNICAL BASIC FEE FOR THE OPTIONAL INTERSECTION IMPROVEMENT SERVICES</b>				<b>\$3,267.75</b>



OEBO SCHEDULE 1

SOLICITATION/PROJECT/BID NAME: Lantana Road and Jog Road Intersection Improvements  
SOLICITATION OPENING/SUBMITTAL DATE: July 26, 2022

SOLICITATION/PROJECT/BID NO.: 2024518  
COUNTY DEPARTMENT: ENGINEERING & PUBLIC WORKS

Section A PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT\* ON THE PROJECT:  
NAME OF PRIME RESPONDENT/BIDDER: MASSE CONSULTING SERVICES, LLC ADDRESS: 1132 Cala Lily Cv., West Palm Beach, FL 33415  
CONTACT PERSON: MD ABUL BASHER KHAN PHONE NO.: 561-568-3197 E-MAIL: Bkhan@masseconsultingfirm.com  
PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$225,161.00  
Non-SBE MBE WBE SBE  
\*SMWBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

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

Subcontractor/Sub consultant Name	(Check all Applicable Categories)				DOLLAR AMOUNT OR PERCENTAGE OF WORK					
	Non-SBE	MBE	WBE	SBE	Black	Hispanic	Women	Caucasian	Asian	Other
		Minority Business	Women Business	Small Business						
1. Ritzel-Mason, Inc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				\$66,905.85		
2. Pacifica Consulting Services, LLC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$16,380.23					
3. Simmons & White, Inc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				\$116,564.00		
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
(Please use additional sheets if necessary)					Total	\$16,380.23		\$183,469.85		

Total Bid/Offer Price \$ \$425,011.08  
Total Certified S/M/WBE Participation \$ \$425,011.08/100%  
I hereby certify that the above information is accurate to the best of my knowledge: Md Abul Basher Khan, P.E. Manager  
Name & Authorized Signature Title

Note: 1. The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.  
2. Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OEBO Affirmative Procurement Initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.  
3. Modification of this form is not permitted and will be rejected upon submittal.  
4. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination  
REVISED 09/26/2024  
This Schedule is subject to the provisions of Emergency Ordinance 2025-014 approved by the BCC on June 3, 2025. As a result, the M/WBE participation is not enforceable.



QR Code

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

SOLICITATION/PROJECT NUMBER: 2024518  
SOLICITATION/PROJECT NAME: Lantana Road and Jog Road Intersection Improvements

Prime Contractor: MASSE CONSULTING SERVICES, LLC Subcontractor: N/A  
(Check box(s) that apply)

☒SBE ☐WBE ☒MBE ☐M/WBE ☐Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 3/11/24 to 3/10/27

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

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

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

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	General Highway Design w/Curb & Gutter, Access, and Drainage				\$225,161.00

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: \$225,161.00

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

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

MASSE CONSULTING SERVICES, LLC  
Print Name of Prime

By: Basher Khan  
Authorized Signature

Md Abul Basher Khan  
Print Name

Manager  
Title

Date: 5/27/2025

N/A  
Print Name of Subcontractor/subconsultant

By: \_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title

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



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

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SOLICITATION/PROJECT NUMBER: 2024518

SOLICITATION/PROJECT NAME: Lantana Road and Jog Road Intersection Improvements

Prime Contractor: MASSE CONSULTING SERVICES, LLC Subcontractor: Ritzel-Mason, Inc.

(Check box(s) that apply)

☒ SBE ☐ WBE ☐ MBE ☐ M/WBE ☐ Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 4/10/25 to 4/9/28

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

Column 1 Column 2 Column 3  
☒ Male ☐ Female ☐ African-American/Black ☐ Asian American ☒ Caucasian American ☐ Supplier  
☐ Hispanic American ☐ Native American

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

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Land Surveying & Engineering Surveying				\$66,905.85

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: \$66,905.85

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

N/A

Price or Percentage: N/A

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

MASSE CONSULTING SERVICES, LLC

Print Name of Prime

By: Md Abul Basher Khan  
Authorized Signature

Md Abul Basher Khan  
Print Name

Manager  
Title

Date: 5/21/2025

Ritzel-Mason, Inc.

Print Name of Subcontractor/subconsultant

By: Clyde R. Mason II  
Authorized Signature

Clyde R. Mason II  
Print Name

President  
Title

Date: 5/21/2025



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

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SOLICITATION/PROJECT NUMBER: 2024518  
SOLICITATION/PROJECT NAME: Lantana Road and Jog Road Intersection Improvements

Prime Contractor: MASSE CONSULTING SERVICES, LLC 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): 10/25/24 to 10/24/27

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	

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Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Geological and Geophysical Studies, & Materials Testing				\$16,380.23

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: \$16,380.23

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

N/A

Price or Percentage: N/A

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

MASSE CONSULTING SERVICES, LLC

Print Name of Prime

By: Basher Khan  
Authorized Signature

Md Abul Basher Khan, P.E.  
Print Name

Manager  
Title

Date: 5/21/2025

Pacifica Engineering Services, LLC

Print Name of Subcontractor/subconsultant

By: [Signature]  
Authorized Signature

Wesley Foster, P.E.  
Print Name

President  
Title

Date: MAY 21 2025



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

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As a result, the M/WBE participation is not enforceable.

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SOLICITATION/PROJECT NUMBER: 2024518  
SOLICITATION/PROJECT NAME: Lantana Road and Jog Road Intersection Improvements

Prime Contractor: MASSE CONSULTING SERVICES, LLC Subcontractor: Simmons & White, Inc.  
(Check box(s) that apply)

☒SBE ☐WBE ☐MBE ☐M/WBE ☐Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 8/20/24 to 8/19/27

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

Column 1 Column 2 Column 3  
☒Male ☐Female ☐African-American/Black ☐Asian American ☒Caucasian American ☐Supplier  
☐Hispanic American ☐Native American

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Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Traffic Operation Signal Design				\$116,564.00

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: \$116,564.00

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

N/A

Price or Percentage: N/A

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

MASSE CONSULTING SERVICES, LLC  
Print Name of Prime

By: Bacher Khan  
Authorized Signature

Md Abul Basher Khan, P.E.  
Print Name

Manager  
Title

Date: 5/23/2025

Simmons & White, Inc.  
Print Name of Subcontractor/subconsultant

By: BK  
Authorized Signature

Bryan G. Kelley, P.E.  
Print Name

Vice President  
Title

Date: 05/23/2025



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

This Schedule is subject to the provisions of Emergency Ordinance 2025-014 approved by the BCC on June 3, 2025  
As a result, the M/WBE participation is not enforceable.

Intersection Continuing Services Contract							
Project #2024518 - R2023-0477 - Masse Consulting Services, LLC							
Contract API(s):				20% SBE			
Contract Commitment:				85%			
GSC Date:				1/5/2022			
Executed By	Project #	CSA #	Supplement #	Date Approved	Total Amount	SBE	
						Total \$	Total %
CRC	2022507	1		1/3/24	\$ 76,221.00	\$ 76,221.00	100.00%
BCC	2023509	2		1/7/25	\$ 235,717.96	\$ 235,717.96	100.00%
BCC	2024508	3		Pending	\$ 368,949.24	\$ 355,689.24	96.40%
BCC	2024518	4		Pending	\$ 425,011.08	\$ 425,011.08	100.00%
Project Totals \$					1,105,899.28	\$ 1,092,639.28	98.80%
This Contract is subject to the provisions of Emergency Ordinance 2025-014 approved by the BCC on June 3, 2025. As a result, the M/WBE participation is not enforceable.							



## Palm Beach County Compliance Summary Report

[illegible]