

**WORK ORDER No. 10 FOR PROFESSIONAL SERVICES**

TO: A&P Consulting Transportation Engineers  
8935 NW 35<sup>th</sup> Lane, Suite 200  
Doral, Florida 33172  
(305) 592-7283

DATE: April 7, 2020

The City of Doral authorizes the firm of A&P Consulting Transportation Engineers to provide professional engineering design services for the provision of signing and pavement marking plans for Sharrows along the Trail Network as noted in the Parks Bond. Where A&P Consulting Transportation Engineers is a prequalified provider of professional engineering services selected in accordance with Consultant Competitive Negotiation Act (CCNA) requirements and approved by the City Council in November 2017 through Resolution 17-202. The work should be performed in accordance with the contract provisions contained in the Continuing Professional Services Agreement between A&P Consulting Transportation Engineers and the City of Doral dated January 30, 2018, and the attached Proposal dated April 7, 2020 and submitted by your firm for the above referenced project.

**SCOPE OF SERVICES AND SCHEDULE:**

The scope of the project will be as described in the attached proposal from A&P Consulting Transportation Engineers dated April 7, 2020 for the development of signing and pavement marking plans for Sharrows along the Trail Network as noted in the Parks Bond. The schedule requires the scope of work to be completed within 3 weeks of Notice to Proceed. All limitations of time set forth in this Work Order are of the essence. The performance of services associated with this Work Order will be executed on a time and material basis not to exceed the amount of \$8,421.13.

You are required by the Continuing Service Agreement to begin work subsequent to the execution of this Work Order, or as directed otherwise. If you fail to begin work subsequent to the execution of this Work Order, the City of Doral will be entitled to disqualify the Proposal and revoke the award.

Work Order incorporates the terms and conditions set forth in the Continuing Services Agreement dated January 30, 2018 between the parties as though fully set forth herein. In the event that any terms or conditions of this Work Order conflict with the Continuing Services Agreement, the provisions of this specific Work Order shall prevail and apply. Work Order is not binding until the City of Doral agrees and approves this Work Order.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and date first above written, in three (3) counterparts, each of which shall, without proof or accounting for the other counterpart be deemed an original Contract.

CONSULTANT: A&P Consulting Transportation Engineers

BY: [Signature]  
NAME: CARLOS M. GIL-MENA  
TITLE: PRINCIPAL

OWNER: City of Doral  
BY: [Signature]  
NAME: Albert P. Childress  
TITLE: City Manager

WITNESSES: SEAL:

1. [Signature]  
2. [Signature]

AUTHENTICATION:  
BY: [Signature]  
NAME: Connie Diaz  
TITLE: City Clerk



APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE SOLE USE OF THE CITY OF DORAL:

BY: [Signature]  
NAME: Luis Figueredo, Esq  
TITLE: City Attorney



8935 NW 35<sup>th</sup> Lane, Suite 200, Doral Florida 33172

## CONSULTANT WORK ORDER PROPOSAL

April 7, 2020

Dear Mr. Collings-Bonfill:

A&P Consulting Transportation Engineers, Corp. proposes to provide the services identified below for the project entitled "**Shared-Use Arrow (SHARROW) Signing and Pavement Markings Plans**", **Civil Engineering Services**, pursuant to its Professional Service Agreement with the City of Doral.

### I. GENERAL

A&P shall design Shared-Use Arrows Lane Markings (SHARROW) Signing and Pavement Markings Plans for:

- NW 112th Avenue between NW 82nd Street to NW 90th Street
- NW 109th Avenue between NW 50th Street to NW 58th Street
- NW 77th Terrace between NW 102nd Avenue to NW 99th Path

The Consultant is to provide all project management, investigation, analysis, permitting, and civil engineering services necessary for signing and pavement markings improvements. All maps, plans and designs are to be prepared with English values in accordance with the FDOT Design Manual and the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD).

### II. SCOPE OF WORK

A. Task 1 – Pre-design site inspection.

- a. Aerial images to be used as background
- b. Existing pavement markings, road geometry, and existing signage shall all be field verified by the engineer.

B. Task 2 – Produce Shared Road signage (W11-15 & W16-1P) and Shared Lane Markings or "Sharrow" (per MUTCD, Figure 9C-9) pavement markings Plans within the limits of the project.

- a. Plans shall be produced at 40 scale and will include the following:
  - i. Key sheet
  - ii. Tabulation of Quantities
  - iii. General Notes
  - iv. Signing and Pavement Drawings
  - v. Plans double stack
  - vi. Special Details (As needed).

- b. Implementation of City review comments before final acceptance.

### III. SUBCONSULTANTS

The below listed Sub-Consultants will assist in the performance of the Work.

Sub-Consultant Name	Specialty or Expertise
N/A	

### IV. SCHEDULE OF WORK – TIME OF PERFORMANCE

Consultant shall submit the Deliverables and perform the Work as depicted in the tables below

<b>SCHEDULE OF DELIVERABLES</b>				
Task or Activity ID #	Task Name and/or Activity Description	Duration (weeks)	Projected Start Date	Projected Finish Date*
1	Preliminary Investigations and Field Reviews	1	NTP	NTP + 1 weeks
2	90% Signing & Pavement Markings submittal	1	NTP +1 weeks	NTP + 2 weeks
3	Implement 90% comments and submit 100% Signing & Pavement Markings	1	NTP + 2 weeks	NTP + 3 weeks
<b>Total Project Duration = 3 weeks = 15 calendar days</b>				

- An updated schedule, indicating actual delivery dates, based on the listed durations, will be provided to the City upon receipt of NTP.

### V. COMPENSATION

Consultant shall perform the Work detailed in this Proposal for a **Total Time and Material Basis (Limited Amount)** fee of **eight thousand four hundred twenty-one dollars and thirteen cents (\$8,421.13)**.

<b>SUMMARY OF COMPENSATION</b>			
Task or Activity ID #	Major Task Name and/or Activity Description	Fee Amount	Fee Basis
1-3	Professional Engineering Services		
	Construction Documents (90% Submittal)	\$ 7,579.02	Time & Materials
	Construction Documents (100% Submittal)	\$ 842.11	Time & Materials
	<b>Total</b>	<b>\$ 8,421.13</b>	

\*Note: Compensation should match the Task, Activities, and/or Deliverables identified.




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**VI. PROJECT MANAGER**

CONSULTANT'S Project Manager for this Work Order assignment will be **Eithel M. Sierra, P.E.**

Submitted by:

  
\_\_\_\_\_  
Eithel M. Sierra, P.E.  
A&P Consulting Transportation Engineers, Corp.

Reviewed and approval in concept  
recommended by:

\_\_\_\_\_  
Eugene Collings-Bonfill, Project Manager  
Chief of Engineering



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**EXHIBIT A**  
**FEE PROPOSAL**  
**PRIME CONSULTANT**

**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: Share-Use Arrows (SHARROW) at various locations  
 County: Miami-Dade  
 FPN: TBD  
 FAP No.: TBD

Consultant Name: A&P Consulting Transportation Engineers, Corp  
 Consultant No.: 65-770583  
 Date: 4/7/2020  
 Estimator: Ethel M. Sierra, PE

Staff Classification	Total Staff Hours From "SH Summary"	Project Manager	Project Engineer	CADD Technician	Clerical	0	0	0	0	0	0	0	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$190.75	\$130.47	\$66.70	\$52.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	50	8	15	25	2	0	0	0	0	0	0	0	0	50	\$5,265	\$105.10
20. Signing & Pavement Marking Plans	30	5	9	14	2	0	0	0	0	0	0	0	0	30	\$3,166	\$105.54
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	<b>80</b>	<b>13</b>	<b>24</b>	<b>39</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80</b>		
<b>Total Staff Cost</b>		<b>\$2,479.75</b>	<b>\$3,131.28</b>	<b>\$2,601.30</b>	<b>\$208.80</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$8,421.13</b>	<b>\$105.26</b>

Survey Field Days by Subconsultant  
 4 - Person Crew.

SALARY RELATED COSTS:			\$8,421.13
OVERHEAD:	0%		\$0.00
OPERATING MARGIN:	0%		\$0.00
FCCM (Facilities Capital Cost Money):	0.00%		\$0.00
EXPENSES:	0.00%		\$0.00
Survey (Field - If by Prime)	0	4-man crew days @ \$ / day	\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>			<b>\$8,421.13</b>
Optional Services:			
<b>GRAND TOTAL ESTIMATED FEE:</b>			<b>\$8,421.13</b>

- Notes:  
 1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.  
 2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

**Project Activity 19: Signing and Pavement Marking Analysis**

Estimator: Eithel M. Sierra, PE

Share-Use Arrows (SHARROW) at various locations

TBD

Representing	Print Name	Signature / Date
City of Doral	Eugene Collings, PE	
Consultant Name	Eithel M. Sierra, PE	

*NOTE: Signature Block is optional, per District preference*

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	
19.2	No Passing Zone Study	LS	1	0	0	
19.3	Reference and Master Design File	LS	1	30	30	Includes the design of Sharrows using aerials. • NW 112th Avenue between NW 82nd Street to NW 90th Street (12 hrs) • NW 109th Avenue between NW 50th Street to NW 58th Street (12 hrs) • NW 77th Terrace between NW 102nd Avenue to NW 99th Path (6 hrs)
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	
19.5	Sign Panel Design Analysis	EA	1	0	0	
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	
19.7	Quantities	LS	1	5	5	5 hrs to calculate quantities for all 3 locations
19.8	Cost Estimate	LS	1	0	0	
19.9	Technical Special Provisions	LS	1	0	0	
19.10	Other Signing and Pavement Marking	LS	1	0	0	
<b>Signing and Pavement Marking Analysis Technical Subtotal</b>					<b>35</b>	
19.11	Field Reviews	LS	1	10	10	1 person x 1 field reviews x 10 hrs (includes travel time)
19.12	Technical Meetings	LS	1	0	0	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	2	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	2	
<b>Signing and Pavement Marking Analysis Nontechnical Subtotal</b>					<b>14</b>	
19.16	Coordination	LS	%	2%	1	
<b>19. Signing and Pavement Marking Analysis Total</b>					<b>50</b>	

**Project Activity 19: Signing and Pavement Marking Analysis**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments	
<b>Technical Meetings</b>		<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>PM Attendance at Meeting Required?</b>	<b>Number</b>
	Sign Panel Design	EA	0	0	0		0
	Queue Length Analysis	EA	0	0	0		0
	Local Governments (cities, counties)	EA	0	0	0		0
	Other Meetings	EA	0	0	0		0
	<b>Subtotal Technical Meetings</b>				<b>0</b>	<b>Subtotal Project Manager Meetings</b>	<b>0</b>
	Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>	--
	Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>	--
	<b>Total Meetings</b>				<b>0</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>



**Project Activity 20: Signing and Pavement Marking Plans**

Estimator: Eithel M. Sierra, PE

Share-Use Arrows (SHARROW) at various locations

TBD

Representing	Print Name	Signature / Date
City of Doral	Eugene Collings, PE	
Consultant Name	Eithel M. Sierra, PE	

*NOTE: Signature Block is optional, per District preference*

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	1	2	1	2	
20.2	Summary of Pay Items Including TRNS-Port Input		LS	0	0	0	0	
20.3	Tabulation of Quantities		Sheet	1	6	1	6	
20.4	General Notes/Pay Item Notes		Sheet	1	1	1	1	
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet		Sheet	7	2	7	14	• NW 112th Avenue between NW 82nd Street to NW 90th Street (3 sheets double view) • NW 109th Avenue between NW 50th Street to NW 58th Street (3 sheets double view) • NW 77th Terrace between NW 102nd Avenue to NW 99th Path (1 sheet double view)
20.7	Typical Details		EA	0	0	0	0	
20.8	Guide Sign Worksheet(s)		EA	0	0	0	0	
20.9	Traffic Monitoring Site		EA	0	0	0	0	
20.10	Cross Sections		EA	0	0	0	0	
20.11	Special Service Point Details		EA	0	0	0	0	
20.12	Special Details		LS	1	5	1	5	
20.13	Interim Standards		LS	0	0	0	0	
<b>Signing and Pavement Marking Plans Technical Subtotal</b>						<b>11</b>	<b>28</b>	
20.14	Quality Assurance/Quality Control		LS	%	5%		1	
20.15	Supervision		LS	%	5%		1	
<b>20. Signing and Pavement Marking Plans Total</b>						<b>11</b>	<b>30</b>	