

**WORK ORDER No. 8 FOR PROFESSIONAL SERVICES**

TO: A&P Consulting Transportation Engineers  
10305 N.W. 41 Street, Suite 115  
Miami, Florida 33178  
(305) 592-7283

DATE: June 14, 2017

The City of Doral authorizes the firm of A&P Consulting Transportation Engineers to provide professional design engineering services for the widening of NW 112 Avenue from NW 25 Street to NW 33 Street. The work should be performed in accordance with the contract provisions contained in the Continuing Professional Services Final Agreement between A&P Consulting Transportation Engineers and the City of Doral dated January 20, 2015, and the attached Proposal 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 Consultant Transportation Engineers. The schedule requires the work to be performed within 180 calendar days. 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 Materials basis with a not to exceed amount of \$153,072.41.

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 20, 2015 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: Carlos M. Gil-Nera  
NAME: CARLOS M. GIL-NERA  
TITLE: PRINCIPAL

WITNESSES: SEAL:

1. [Signature]  
2. [Signature]



OWNER: City of Doral  
BY: [Signature]  
NAME: Edward Rojas  
TITLE: City Manager

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

APPROVED AS TO FORM:  
BY: [Signature]  
NAME: WEISS, SEROTA, HELFMAN, COLE, & BIERMAN, PL  
TITLE: City Attorney



## A&P Consulting Transportation Engineers

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### CONSULTANT WORK ORDER PROPOSAL

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May 12, 2017

Dear Mr. Collings-Bonfill:

A&P Consulting Transportation Engineers, Corp. proposes to provide the services identified below for the project entitled "**NW 112<sup>th</sup> Avenue Roadway Improvements**", **Civil Engineering Services**, pursuant to its Professional Service Agreement with the City of Doral.

#### I. GENERAL

The Consultant is to provide all project management, investigation, analysis, permitting, utility coordination, and civil engineering services necessary for roadway and drainage improvements and the development of the NW 112<sup>th</sup> Avenue including but not limited to milling & resurfacing and roadway widening from **NW 25<sup>th</sup> Street to NW 34<sup>th</sup> Street**, concrete sidewalk and driveways, ADA curb ramps, drainage, signing and pavement markings, landscape, and lighting improvements. All maps, plans and designs are to be prepared with English values in accordance with the FDOT Plans Preparation Manual and CADD Production Criteria Handbook. The Consultant is to provide a CD containing all CADD project files to the City at the conclusion of the project.

#### II. SCOPE OF WORK

##### Project Activity 3: Project General Tasks

###### ***Public Involvement***

Public involvement includes communicating to all interest persons, groups, and government organizations information regarding the development of the project. Services to include necessary boards and presentation materials for use in public meetings as well as attendance at public meeting(s) and assistance with summary of meeting including a listing of all written comments made during and/or after the meeting and responses to those written comments. Construction document revisions necessary as a result of these public meetings shall also be included as related to the scope of work. These public involvement activities will be performed by the Prime Consultant.

###### ***Specification Package Preparation***

Prepare technical specifications, Bid Form, and review and necessary revisions to drawings as applicable to this project.

###### ***Prime Consultant Project Management Meetings***

This task includes only the Prime Consultant Project Manager's time for travel and attendance at phase reviews, miscellaneous review meetings, resolution of conflicts between existing conditions and design drawings, progress reviews, progress meetings and preparation of meeting minutes, and other coordination activities.



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### Roadway Design Analysis

The CONSULTANT shall analyze and document Roadway Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

#### ***Typical Section Package***

Provide an approved Typical Section Package prior to the 60% submittal including reconstruction and/or milling and resurfacing of the roadway, sidewalk, ADA curb ramps and any other relevant information to the scope of the project.

#### ***Pavement Design Package***

Provide an approved Pavement Design Section Package for new roadway reconstruction following the latest Miami-Dade County and Florida Greenbook Standards.

#### ***Horizontal / Vertical Master Design Files***

Design the geometrics using the design standards that are most appropriate with proper consideration given to the design traffic volumes, design speed, capacity and levels of service, functional classification, adjacent land use, design consistency and driver expectancy, aesthetics, pedestrian and bicycle concerns, ADA requirements, elder road user policy, access management, preliminary documents provided by the City and scope of work.

#### ***Cross Section Design Files***

Establish and develop cross section design files for the roadway improvements. Cross Sections must be in accordance with the FDOT Plans Preparation Manual.

#### ***Traffic Control Analysis***

Design a safe and effective Traffic Control Plan to move vehicular and pedestrian traffic during all phases of construction. The design shall include construction phasing of roadways ingress and egress to existing property owners and businesses, routing, signing and pavement markings, and detour quantity tabulations. Special consideration shall be given to the construction of the drainage system when developing the construction phases. Positive drainage must be maintained at all times.

#### ***Quantities***

Prepare the various summary of quantity sheets and any supporting documentation.

#### ***Cost Estimate***

Provide Engineer's Opinion of Probable Construction Cost Estimate at three stages. The first, (60%) at the preliminary stage, the second, (90%) when complete but subject to change and the last (100%) in the final stage of the project.

#### ***Field Reviews***

Includes all trips required to obtain necessary data for all elements of the project.



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### ***Technical Meetings***

Meet with the relevant agencies having jurisdiction (e.g. City of Doral, Miami Dade County Traffic Engineering, and Miami-Dade County Department of Regulatory and Economic Resources (DRER), to investigate options for roadways configuration, right-of-way information especially with non-dedicated public right-of-way, and overall traffic control.

### ***Quality Assurance/Quality Control***

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of all surveys, designs, drawings, specifications and other services furnished by the CONSULTANT under this contract.

### ***Supervision***

Includes all efforts required to supervise all roadway technical design activities.

## **Construction Plans**

Prepare Roadway, Drainage, Traffic Control, Utility Adjustment Sheets, plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction:

### ***Key Sheet***

#### ***Summary of Pay Items***

#### ***Drainage Map (to be included in Drainage Report Only)***

Includes the development of a pre-development drainage map including delineation of drainage areas, flow characteristics, and existing drainage systems (inlet, pipes, French drains, slab covered trenches, swales, outfall, etc.).

### ***Typical Section Sheets***

#### ***General Notes / Pay Item Notes***

#### ***Summary of Drainage Structures***

#### ***Plan / Profile Sheets***

#### ***Drainage Structure Sheets***

#### ***Cross Sections***

#### ***Traffic Control Detail Sheet***

#### ***Utility Adjustment Sheets***

#### ***Stormwater Pollution Prevention Plan (SWPPP)***

#### ***Utility Verification Sheet (SUE Data)***

#### ***Quality Assurance / Quality Control***

#### ***Supervision***

## **Drainage Analysis**

Analyze and document Drainage Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.



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### ***Design of Storm Drains***

Design and Plan production of stormwater manhole and catch basins including hydraulic analysis. Identify in drawings all existing drainage structures, pipes, slab covered trenches, and outfall to be cleaned, or replaced if necessary, and quantify in bid line item.

Coordinate fully with the appropriate permitting agencies and the City of Doral's staff. All activities and submittals should be coordinated through the City's Project Manager.

### ***French Drain Design***

Research existing French Drains within project limits that are to remain. Calculate length of French Drain required according to level of service requirements (using ICPR analysis). The Level of Service requirements are as follows:

Drainage tributary areas will include the streets and 20' frontages of private property on either side.

- a. 5 year storm (rational method) up to 24 hour duration – either with no overflow or positive discharge. No ponding (Volumetric design).
- b. 5 year storm 1 hour storm event w/infiltration if using a flood routing approach – no overflow, no ponding.

### ***Drainage Design Documentation Report***

Compile drainage design documentation into report format. Include documentation for all the drainage design tasks and associated meetings and decisions. This report will provide documentation of the existing drainage and permit conditions within the project area, identification of the drainage and/or permit requirements, analysis of alternative solutions (based on level of improvement and cost), and recommendations of a preferred alternative to be evaluated further to alleviate or eliminate the drainage problem.

### ***Field Reviews***

Perform site visits during dry weather and rainfall events to determine the effectiveness of the existing drainage system. Provide dated photographic documentation.

### ***Technical Meetings***

Meet with City staff and residents to compile complaints complaint data.

### ***Quality Assurance / Quality Control***

Submit QA/QC set for all design work at each phase submittal.

### ***Supervision***

Includes all efforts required to supervise all technical drainage design activities.

### ***Coordination***

Coordinate with relevant agencies and all disciplines during design process. Provide the necessary coordination with the geotechnical sub-consultant to complete drainage analysis and report. The Consultant shall verify with Miami-Dade County DRER the contaminated areas where infiltration trenches or other drainage improvements are not permitted without environmental remediation.



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### Utilities

The CONSULTANT shall identify utility facilities and secure agreements, utility work schedules, and plans from the Utility Agency Owners (UAO) ensuring no conflicts exist between utility facilities and the City's construction project. The CONSULTANT shall certify all utility negotiations have been completed with arrangements made for utility work to be undertaken.

#### ***Identify Existing Utility Agency Owners (UAO)s***

Identify all utilities in the corridor; check with the City of Doral Public Works for Permits, Sunshine State One Call, Subsurface Utility Engineering (SUE) (commonly known as Soft Digs) Report, Design Location Survey, and Existing Plans; and conduct field visits to observe existing utilities.

#### ***Make Utility Contacts***

Send plans and letters to each utility company, requesting their proposed system betterments and markups the plans.

#### ***Collect and Review Plans and Data from UAO(s)***

Analyze and include relevant data in construction documents as necessary.

#### ***Utility Design Meeting***

At a minimum of 3 weeks prior to the meeting, the CONSULTANT shall transmit two complete sets of 90% plans to each UAO having facilities located within the project limits, and one set to the City. The CONSULTANT shall schedule (time and place), notify participants, and conduct a Utility meeting with all affected UAO(s). The CONSULTANT shall be prepared to discuss drainage, maintenance of traffic (construction phasing), review the current design schedule and letting date, evaluate the utility information collected, provide follow-up information on compensable interest requests, discuss the utility work by highway contractor option with each utility, discuss any future design issues that may impact utilities, etc., to the extent that they may have an effect on existing or proposed utility facilities with particular emphasis on drainage and maintenance of traffic with each UAO. The intent of this meeting shall be to identify and resolve conflicts between utilities and proposed construction prior to completion of the plans, including utility adjustment details. Also recommend resolution between known utility conflicts with proposed construction plans as practical. The CONSULTANT shall keep accurate minutes of all meetings and distribute a copy to all attendees.

#### ***Review Utility Markups and Work Schedules and Processing of Schedules and Agreements***

Review utility marked up plans individually as they are received for content and coordinate review with the designer.



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### ***Utility Coordination / Followup***

This includes follow-up, interpreting plans, and assisting and the completion of the UAO(s) work schedule and agreements. Includes phone calls, face-to-face meetings, etc., to motivate and ensure the UAO(s) complete and return the required documents in accordance with the project schedule. Ensure the resolution of all known conflicts. This task can be applied to all phases of the project. Prepare at each submittal phase an updated utility coordination matrix.

### ***Utility Constructability Review***

Review utility schedules against construction contract time, and phasing for compatibility.

### ***Certification / Close-out***

This includes hours for transmitting utility files to the UAO(s) and preparation of the Utility Certification Letter. The CONSULTANT shall certify to the appropriate City's representative the following:

All utility negotiations (Full execution of each agreement, approved Utility Work Schedules, technical special provisions written, etc.) have been completed with arrangements made for utility work to be undertaken and completed as required for proper coordination with the physical construction schedule.

OR

An on-site inspection was made and no utility work will be involved.

OR

Plans were sent to the Utility Companies/Agencies and no utility work is required.

### **Environmental Permits**

The CONSULTANT shall notify the City Project Manager and other appropriate personnel in advance of all scheduled meetings with the regulatory agencies to allow a City representative to attend. The CONSULTANT shall copy in the Project Manager on all permit related correspondence and meetings.

### ***Preliminary Project Research***

The CONSULTANT shall perform preliminary project research and shall be responsible for early identification of and coordination with the appropriate regulatory agencies to assure that design efforts are properly directed toward permit requirements.



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### **Signing and Pavement Marking Analysis**

Analyze and document Signing and Pavement Markings Tasks in accordance with all applicable manuals (latest editions), guidelines, standards, handbooks, procedures and current design memorandums as required by the MUTCD, City of Doral, Miami-Dade County and Florida Department of Transportation (FDOT).

#### ***Reference and Master Design File***

The CONSULTANT shall prepare the Signing & Marking Design file to include all necessary design elements and all associated reference files.

#### ***Quantities***

#### ***Quality Assurance / Quality Control***

#### ***Supervision***

#### ***Coordination***

Coordinate with relevant agencies and all disciplines during design process.

### **Signing and Pavement Markings Plans**

#### ***Key Sheet***

#### ***Summary of Pay Items***

#### ***Tabulation of Quantities***

#### ***General Notes / Pay Item Notes***

#### ***Plan Sheets***

#### ***Typical Details***

#### ***Quality Assurance / Quality Control***

#### ***Supervision***

### **Lighting Analysis**

The CONSULTANT shall analyze and document Lighting Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

#### ***Lighting Design Analysis Report***

The CONSULTANT shall prepare a Preliminary Lighting Design Analysis Report. The report shall provide photometric calculations and analyses for each typical section of the mainline, including schedule of the pole location and light pole luminaires selection. Each lighting calculation shall be properly identified as to the area that it covers.

#### ***Voltage Drop Calculations***

The CONSULTANT shall submit voltage drop calculations showing the equation or equations used along with the number of luminaires per circuit, the length of each circuit, the size conductor or conductors used and their ohm resistance values. The voltage drop incurred on each circuit (total volts and percentage of drop) shall be calculated, and all work necessary to calculate the voltage drop values for each circuit should be presented in such a manner as to be duplicated by the Contractor.





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### ***Reference and Master Design Files***

The CONSULTANT shall prepare the Lighting Design file to be used as support information for the Lighting Analysis Report and for Lighting Plans.

### ***Field Reviews***

The CONSULTANT shall collect information from the maintaining agencies and conduct a field review. The review should include but is not limited to the following:

- Existing Lighting Equipment
- Load Center, Capabilities and Condition/Age
- Condition of Lighting Structure(s)

### ***Technical Meetings***

- Quality Assurance / Quality Control***
- Supervision***
- Coordination***

## **Lighting Plans**

- Tabulation of Quantities***
- General Notes/Pay Item Notes***
- Pole Data, Legend & Criteria***
- Service Point Details***
- Plan Sheets***
- Quality Assurance / Quality Control***
- Supervision***

## **Landscape Analysis & Plans**

See attached Exhibit B with Scope of Work from our sub-consultant Keith Schnars & Associates, Inc.

## **Survey**

See attached Exhibit B with Scope of Work from our sub-consultant Longitude Surveyors, LLC

## **Geotechnical**

See attached Exhibit B with Scope of Work from our sub-consultant Geosol, Inc.



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### III. SUBCONSULTANTS

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

Sub-Consultant Name	Specialty or Expertise
Keith Schnars & Associates, Inc.	Landscape Services
Longitude Surveyors, LLC	Survey
Geosol, Inc.	Geotechnical Engineering

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

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

SCHEDULE OF DELIVERABLES				
Task or Activity ID #	Task Name and/or Activity Description	Duration (weeks)	Projected Start Date	Projected Finish Date*
1	Preliminary Investigations, Field Reviews, Technical Meetings	2	NTP	NTP + 2 weeks
2	Topographical Survey	4	NTP	NTP + 4 weeks
3	Geotechnical Testing	4	NTP	NTP + 4 weeks
4	60% Roadway, Drainage, Signing & Pavement Markings, Landscape, Lighting, Permit Agency Coordination, and Technical Meetings	10	NTP +4 weeks	NTP + 14 weeks
5	90% Roadway, Drainage, and Signing & Pavement Markings, Landscape, Lighting, Agency Coordination, and Technical Meetings	6	NTP + 14 weeks	NTP + 20 weeks
6	100% Roadway-Drainage and Signing & Pavements Markings, Landscape, and Lighting.	6	NTP + 20 weeks	NTP + 26 weeks
<b>Total Project Duration = 26 weeks = 180 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. The above durations include 2 weeks duration for review time by the City between each submittal.

### V. COMPENSATION

Consultant shall perform the Work detailed in this Proposal for a Total Time and Material Basis (Limited Amount) fee of one hundred fifty three thousands seventy two dollars and forty one cents (\$153,072.41).



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<b>SUMMARY OF COMPENSATION</b>			
<b>Task or Activity ID #</b>	<b>Major Task Name and/or Activity Description</b>	<b>Fee Amount</b>	<b>Fee Basis</b>
1, 4-6	Professional Engineering Services (including Landscape)		
	Construction Documents (60% Submittal)	\$ 69,604.45	Time & Materials
	Construction Documents (90% Submittal)	\$ 34,802.22	Time & Materials
	Construction Documents (100% Submittal)	\$ 11,600.74	Time & Materials
	<b>Subtotal Professional Fees</b>	<b>\$ 116,007.41</b>	<b>Time &amp; Materials</b>
2	Topographical Survey	\$ 15,000.00	Time & Materials, (One time submittal upon delivery)
3	Geotechnical Testing	\$ 13,315.00	Time & Materials, (One time submittal upon delivery)
	Subsurface Utility Engineering (SUE) – Optional Services	\$8,750.00	Time & Materials, (One time submittal upon delivery)
	<b>Total</b>	<b>\$ 153,072.41</b>	

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



**A&P Consulting Transportation Engineers**

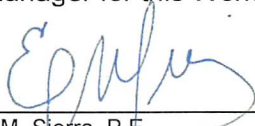
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**VI. PROJECT MANAGER**

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**

**Project Information Sheet**

Financial Project Identification Number: <b>TBD</b>		Federal Aid Project Identification Number: <b>TBD</b>	
Name of Prime / Subconsultant: <b>A&amp;P Consulting Transportation Engineers, Corp</b>		County: <b>Miami-Dade</b>	
Project Description: <b>NW 112th Avenue from NW 25 St. to NW 34 St.</b>			
Begin Milepost: _____	End Milepost: _____	Project Length: <b>3,000</b> Feet	
Number of Lanes: <b>5</b>	Typical Section: <b>Urban</b> (Urban / Rural / Int.)	Lane Configuration: <b>Undivided</b> (Divided / Undivided)	
Project Type: <b>Minor</b> (Minor / Major)	Access Management Classification: _____	Roadway Classification: <b>NHS</b> (NHS/FIHS/Off Sys.)	
CAP Level: _____	TCP Level: <b>1</b>	Survey Level: _____	
Design Variations: 1. _____		Design Exceptions: 1. _____	
2. _____		2. _____	
3. _____		3. _____	
4. _____		4. _____	
5. _____		5. _____	
Proposed Design Contract Time: <b>12</b> months/days		Date of Negotiation: _____	

Project Activity:	Estimated By:		Negotiated By: (name - firm)	
	Consultant	City of Doral	Consultant	City of Doral
3. Project Common & Project General Tasks				
4. Roadway Analysis				
5. Roadway Plans				
6a. Drainage Analysis				
6b. Drainage Plans				
7. Utilities				
8. Environmental Permits				
9. Structures Summary				
10. Structures - Bridge Development Report				
11. Structures - Temporary Bridge				
12. Structures - Short Span Concrete				
13. Structures - Medium Span Concrete				
14. Structures - Structural Steel				
15. Structures - Segmental Concrete				
16. Structures - Movable Span				
17. Structures - Retaining Walls				
18. Structures - Miscellaneous				
19. Signing and Pavement Marking Analysis				
20. Signing and Pavement Marking Plans				
21. Signalization Analysis				
22. Signalization Plans				
23. Lighting Analysis				
24. Lighting Plans				
25. Landscape Architecture Analysis				
26. Landscape Architecture Plans				
27. Survey				
28. Photogrammetry				
29. Mapping				
30. Terrestrial Mobile LiDAR				
31. Architecture Development				
32. Noise Barriers Impact Design Assessment				
33. Intelligent Transportation Systems Analysis				
34. Intelligent Transportation Systems Plans				
35. Geotechnical				

**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: TBD

Project Name: NW 112th Avenue from NW 25 St. to NW

FAP Number: TBD

Date: 5/12/2017

Name of Consultant: A&P Consulting Transportation Engineers

WORK ACTIVITY	Hours from "Summary" sheet	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD	
	Firm Total Hours	Principal Engineer Hours	Project Manager Hours	Senior Engineer Hours	Project Engineer Hours	CADD Technician Hours	Engineering Technician Hours	Clerical Hours	0	0	0	0	0	RANGE			
									Hours	Hours	Hours	Hours	Hours	Hours	PERCENT		
3. Project General and Project Common Tasks	33	1	6	3	10	8	4	1	0	0	0	0	0	33	36		
4. Roadway Analysis	251	6	38	20	75	63	38	11	0	0	0	0	0	251	276		
5. Roadway Plans	149	4	22	12	45	37	22	7	0	0	0	0	0	149	164		
6a. Drainage Analysis	147	3	22	12	44	37	22	7	0	0	0	0	0	147	162		
6b. Drainage Plans	51	1	8	4	15	13	8	2	0	0	0	0	0	51	56		
7. Utilities	62	1	9	5	19	16	9	3	0	0	0	0	0	62	68		
8. Environmental Permits, Compliance & Clearances	6	0	1	0	2	2	1	0	0	0	0	0	0	6	7		
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
19. Signing & Pavement Marking Analysis	45	2	7	5	14	9	7	1	0	0	0	0	0	45	50		
20. Signing & Pavement Marking Plans	34	2	5	3	10	7	5	2	0	0	0	0	0	34	37		
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
23. Lighting Analysis	75	4	11	8	23	15	11	3	0	0	0	0	0	75	83		
24. Lighting Plans	50	3	8	5	15	10	6	3	0	0	0	0	0	50	55		
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>TOTALS</b>	<b>903</b>	<b>27</b>	<b>137</b>	<b>77</b>	<b>272</b>	<b>217</b>	<b>133</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>903</b>	<b>994</b>		
													<b>FIRM TOTAL</b>		<b>903</b>	<b>994</b>	

Field Survey Estimate:  
0 4-man crew days

**Notes:**

- This worksheet provides the distribution of a firm's total staff hours for a project.
- Percentages for staff hour distribution by classification are entered below in rows 63 to 96 of this sheet.
- Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
- Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: TBD      Date: 5/12/2017

FAP Number: TBD      Name of Consultant: A&P Consulting Transportation Engineers

Project Name: NW 112th Avenue from NW 25 St. to NW

Task	Hours from "Summary" sheet Firm Total	Staff Hour Distribution Percentages - Firm Total										Total
		Principal Engineer	Project Manager	Senior Engineer	Project Engineer	CADD Technician	Engineering Technician	Clerical	0	0	0	
3. Project General and Project Common Tasks	33	2.0%	15.0%	8.0%	30.0%	25.0%	15.0%	5.0%	0	0	0	100.00%
4. Roadway Analysis	251	2.0%	15.0%	8.0%	30.0%	25.0%	15.0%	5.0%				100.00%
5. Roadway Plans	149	2.0%	15.0%	8.0%	30.0%	25.0%	15.0%	5.0%				100.00%
6a. Drainage Analysis	147	2.0%	15.0%	8.0%	30.0%	25.0%	15.0%	5.0%				100.00%
6b. Drainage Plans	51	2.0%	15.0%	8.0%	30.0%	25.0%	15.0%	5.0%				100.00%
7. Utilities	62	2.0%	15.0%	8.0%	30.0%	25.0%	15.0%	5.0%				100.00%
8. Environmental Permits, Compliance & Clearances	6	2.0%	15.0%	8.0%	30.0%	25.0%	15.0%	5.0%				100.00%
9. Structures - Misc. Tasks, Dwg's, Non-Tech.	0											0.00%
10. Structures - Bridge Development Report	0											0.00%
11. Structures - Temporary Bridge	0											0.00%
12. Structures - Short Span Concrete Bridge	0											0.00%
13. Structures - Medium Span Concrete Bridge	0											0.00%
14. Structures - Structural Steel Bridge	0											0.00%
15. Structures - Segmental Concrete Bridge	0											0.00%
16. Structures - Movable Span	0											0.00%
17. Structures - Retaining Walls	0											0.00%
18. Structures - Miscellaneous	0											0.00%
19. Signing & Pavement Marking Analysis	45	5.0%	15.0%	10.0%	30.0%	20.0%	15.0%	5.0%				100.00%
20. Signing & Pavement Marking Plans	34	5.0%	15.0%	10.0%	30.0%	20.0%	15.0%	5.0%				100.00%
21. Signalization Analysis	0											0.00%
22. Signalization Plans	0											0.00%
23. Lighting Analysis	75	5.0%	15.0%	10.0%	30.0%	20.0%	15.0%	5.0%				100.00%
24. Lighting Plans	50	5.0%	15.0%	10.0%	30.0%	20.0%	15.0%	5.0%				100.00%
25. Landscape Architecture Analysis	0											0.00%
26. Landscape Architecture Plans	0											0.00%
27. Survey (Field & Office Support)	0											0.00%
28. Photogrammetry	0											0.00%
29. Mapping	0											0.00%
30. Terrestrial Mobile LIDAR	0											0.00%
31. Architecture Development	0											0.00%
32. Noise Barriers Impact Design Assessment	0											0.00%
33. Intelligent Transportation Systems Analysis	0											0.00%
34. Intelligent Transportation Systems Plans	0											0.00%
35. Geotechnical	0											0.00%



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

Name of Project: NW 112th Avenue from NW 25 St. to NW 34 St.  
 County: Miami-Dade  
 FPN: TBD  
 FAP No.: TBD

Consultant Name: A&P Consulting Transportation Engineers, Corp  
 Consultant No.: 65-770583  
 Date: 5/12/2017  
 Estimator: Ethel M. Sierra, PE

Staff Classification	Total Staff Hours From "SH Summary -	Principal Engineer	Project Manager	Senior Engineer	Project Engineer	CADD Technician	Engineering Technician	Clerical	0	0	0	0	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$190.75	\$187.48	\$139.43	\$130.47	\$66.70	\$81.52	\$52.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
3. Project General and Project Common Tasks	33	1	6	3	10	8	4	1	0	0	0	0	0	33	\$3,951	\$119.71
4. Roadway Analysis	251	6	38	20	75	63	38	11	0	0	0	0	0	251	\$28,717	\$114.41
5. Roadway Plans	149	4	22	12	45	37	22	7	0	0	0	0	0	149	\$17,059	\$114.49
6a. Drainage Analysis	147	3	22	12	44	37	22	7	0	0	0	0	0	147	\$16,737	\$113.86
6b. Drainage Plans	51	1	8	4	15	13	8	2	0	0	0	0	0	51	\$5,829	\$114.29
7. Utilities	62	1	9	5	19	16	9	3	0	0	0	0	0	62	\$7,012	\$113.09
8. Environmental Permits, Compliance & Clearances	6	0	1	0	2	2	1	0	0	0	0	0	0	6	\$663	\$110.56
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	45	2	7	5	14	9	7	1	0	0	0	0	0	45	\$5,441	\$120.91
20. Signing & Pavement Marking Plans	34	2	5	3	10	7	5	2	0	0	0	0	0	34	\$4,021	\$118.26
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	75	4	11	8	23	15	11	3	0	0	0	0	0	75	\$8,995	\$119.94
24. Lighting Plans	50	3	8	5	15	10	6	3	0	0	0	0	0	50	\$6,039	\$120.78
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>903</b>	<b>27</b>	<b>137</b>	<b>77</b>	<b>272</b>	<b>217</b>	<b>133</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>903</b>		
<b>Total Staff Cost</b>		<b>\$5,150.25</b>	<b>\$25,684.76</b>	<b>\$10,736.11</b>	<b>\$35,487.84</b>	<b>\$14,473.90</b>	<b>\$2,088.00</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>\$104,463.02</b>	<b>\$115.68</b>

Check = \$104,463.02

Survey Field Days by Subconsultant  
 4 - Person Crew:

Notes:

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

SALARY RELATED COSTS:			\$104,463.02
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>\$104,463.02</b>

Subconsultant: Geosol, Inc.	\$13,315.00
Subconsultant: Longitude Surveyors	\$15,000.00
Subconsultant: Keth & Schnars & Associates - Landscape Architect	\$11,544.39
<b>SUBTOTAL ESTIMATED FEE:</b>	<b>\$144,322.41</b>
Optional Services: FR Aleman & Associated (Utility Investigation)	<b>\$8,750.00</b>
<b>GRAND TOTAL ESTIMATED FEE:</b>	<b>\$153,072.41</b>

**Project Activity 3: General Tasks**

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.

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/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	
3.1.2	Notifications	LS	1	0	0	
3.1.3	Prepare Mailing Lists	LS	1	0	0	
3.1.4	Median Modification Letters	LS	1	0	0	
3.1.5	Driveway Modification Letters	LS	1	0	0	
3.1.6	Newsletters	LS	1	0	0	
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	1	8	8	Prepare Presentation Boards
3.1.10	Public Meeting Attendance/Followup	LS	1	4	4	
3.1.11	Other Agency Meetings	LS	1	4	4	Attend Meeting with Charter School - Prepare Meeting Minutes
3.1.12	Web Site	LS	1	0	0	
<b>3.1 Public Involvement Subtotal</b>					<b>16</b>	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	1	0	0	
3.4	Contract Maintenance and EDMS	LS	1	0	0	
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	17	17	Meetings are listed below
3.7	Plans Update	LS	1	0	0	

**Project Activity 3: General Tasks**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	
3.9	Digital Delivery	LS	1	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.12	Other Project General Tasks	LS	1	0	0	
<b>3. Project Common and Project General Tasks Total</b>					<b>33</b>	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	1	1	1	Typical Section meeting
Drainage	EA	1	2	2	Meeting with DRER
Utilities	EA	3	2	6	Utility Kick-off Meeting, Utility Design Conference, Field Meeting
Environmental	EA	0	0	0	
Structures	EA	0	0	0	
Signing & Pavement Marking	EA	1	2	2	Meeting with MD County Traffic
Signalization	EA	0	0	0	
Lighting	EA	0	0	0	
Landscape Architecture	EA	0	0	0	
Survey	EA	0	0	0	
Photogrammetry	EA	0	0	0	
ROW & Mapping	EA	0	0	0	
Terrestrial Mobile LiDAR	EA	0	0	0	
Architecture	EA	0	0	0	
Noise Barriers	EA	0	0	0	
ITS Analysis	EA	0	0	0	
Geotechnical	EA	0	0	0	
Progress Meetings	EA	0	0	0	
Phase Reviews	EA	0	0	0	
Field Reviews	EA	3	2	6	Includes Initial Field Review and 2 additional
<b>Total Project Manager Meetings</b>		<b>9</b>		<b>17</b>	<b>Total PM Meeting Hours carries to Task 3.6 above</b>

**Notes:**

1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.
2. Do not double count agency meetings between permitting agencies.
3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.

**Project Activity 4: Roadway Analysis**

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.

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/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	8	8	
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	10	10	Develop a Pavement Design Memo to include Milling and resurfacing + widening
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	100	100	
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	28	28	24 hrs x 0.569 = 14 hrs x 2 (for 50' spacing) = 28 hrs
4.10	Traffic Control Analysis	LS	1	16	16	Level 1 - (Includes analysis for TCP, lane closure analysis and creating Miscellaneous TTCP sheets, minor details, typical sections and quantities). No detailed phase drawings required. Standard indexes are referenced.
4.11	Master TCP Design Files	LS	1	0	0	
4.12	Design Variations and Exceptions	LS	1	0	0	
4.13	Design Report	LS	1	0	0	
4.14	Quantities	LS	1	28	28	Includes all work required to determine the roadway quantities for placement in the various summary of quantities sheets and boxes.
4.15	Cost Estimate	LS	1	18	18	Initial cost estimate = 6 hrs, and updating as necessary = 3 updates x 4 hrs = 18 hrs total.
4.16	Technical Special Provisions	LS	1	0	0	
4.17	Other Roadway Analyses	LS	1	0	0	
<b>Roadway Analysis Technical Subtotal</b>					<b>208</b>	

**Project Activity 4: Roadway Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.18	Field Reviews	LS	1	8	8	2 field review x 2 people x 2 hrs
4.19	Monitor Existing Structures	LS	1	0	0	None is anticipated.
4.20	Technical Meetings	LS	1	10	10	Meetings are listed below
4.21	Quality Assurance/Quality Control	LS	%	5%	10	
4.22	Independent Peer Review	LS	%	0%	0	
4.23	Supervision	LS	%	5%	10	
<b>Roadway Analysis Nontechnical Subtotal</b>					<b>38</b>	
4.24	Coordination	LS	%	2%	5	
<b>4. Roadway Analysis Total</b>					<b>251</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0		0
Pavement	EA	0	0	0		0
Access Management	EA	0	0	0		0
15% Line and Grade	EA	0	0	0		0
Driveways	EA	0	0	0		0
Local Governments (cities, counties, MPO)	EA	2	2	4		0
Work Zone Traffic Control	EA	0	0	0		0
60 and 90% Comment Review Meetings	EA	0	0	0		0
Other Meetings (PS&E Meeting)	EA	0	0	0	yes	0
<b>Subtotal Technical Meetings</b>				<b>4</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	3	2	6	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>	--
<b>Total Meetings</b>				<b>10</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to 4.17

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.

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 or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	4	4	
5.2	Summary of Pay Items Including Quantity Input		Sheet	0	0	0	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	1	6	6	
5.3.2	Typical Section Details		EA	1	2	2	Widenign and feathering details
5.4	General Notes/Pay Item Notes		Sheet	1	2	2	Project specific notes
5.5	Summary of Quantities Sheets		Sheet	12	4	48	
5.6	Project Layout		Sheet	0	0	0	
5.7	Plan/Profile Sheet		Sheet	0	0	0	
5.8	Profile Sheet		Sheet	0	0	0	
5.9	Plan Sheet	1 = 40	Sheet	6	3	18	
5.10	Special Profile		Sheet	0	0	0	
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.12	Interchange Layout Sheet		Sheet	0	0	0	
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.14	Intersection Layout Details		Sheet	0	0	0	
5.15	Special Details		EA	0	0	0	

**Project Activity 5: Roadway Plans**

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	
5.17	Roadway Soil Survey Sheet(s)		Sheet	0	0	0	
5.18	Cross Sections		EA	60	0.25	15	Cross Sections every 50'
5.19	Temporary Traffic Control Plan Sheets		Sheet	2	4	8	Detailed sheets to maintain traffic around the School Area
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.21	Temporary Traffic Control Detail Sheets		Sheet	4	7	28	Includes TTCP Project Specific Notes and typicals showing Phasing notes. Use Standard Indexes when applicable.
5.22	Utility Adjustment Sheets		Sheet	0	0	0	Included in Roadway Plans
5.23	Selective Clearing and Grubbing Sheet(s)		Sheet	0	0	0	
5.24	Project Network Control Sheet(s)		Sheet	0	0	0	
5.25	Environmental Detail Sheets		Sheet	0	0	0	
5.26	Utility Verification Sheet(s) (SUE Data)		Sheet	1	4	4	Develop table to include test hole summary
<b>Roadway Plans Technical Subtotal</b>						<b>135</b>	
5.27	Quality Assurance/Quality Control		LS	%	5%	7	
5.28	Supervision		LS	%	5%	7	
<b>5. Roadway Plans Total</b>						<b>149</b>	

**Project Activity 6a: Drainage Analysis**

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.

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/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	0	0	0	Show areas entering inlets (include in report)
6a.2	Base Clearance Report	Per Location	0	0	0	
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	
6a.4	Design of Cross Drains	EA	0	0	0	
6a.5	Design of Ditches	Per Ditch Mile	0	0	0	
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	
6a.7	Design of Stormwater Management Facility (Roadside Ditch as Linear Pond)	Per Cell	0	0	0	
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	
6a.9	Design of Storm Drains	EA	31	2	62	Includes 8 partial inlets, 18 new inlets and 5 new manholes.
6a.10	Optional Culvert Material	EA	31	0.2	6	
6a.11	French Drain Systems	Per Cell	2	14	28	Assume additional French Drain will be needed to provide water quality.
6a.12	Drainage Wells	EA	0	0	0	
6a.13	Drainage Design Documentation Report	LS	1	24	24	
6a.14	Bridge Hydraulic Report	EA	0	0	0	



**Project Activity 6a: Drainage Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	1	0	0	
6a.16	Cost Estimate	LS	1	0	0	
6a.17	Technical Special Provisions	LS	1	0	0	
6a.18	Other Drainage Analysis	LS	1	0	0	
<b>Drainage Analysis Technical Subtotal</b>					<b>120</b>	
6a.19	Field Reviews	LS	1	8	8	2 people x 2 field review x 2 hrs
6a.20	Technical Meetings	LS	1	4	4	Meetings are listed below
6a.21	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.22	Quality Assurance/Quality Control	LS	%	5%	6	
6a.23	Independent Peer Review	LS	%	0%	0	
6a.24	Supervision	LS	%	5%	6	
<b>Drainage Analysis Nontechnical Subtotal</b>					<b>24</b>	
6a.25	Coordination	LS	%	2%	3	
<b>6a. Drainage Analysis Total</b>					<b>147</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0		0
Pond Siting	EA	0	0	0		0
Agency	EA	1	2	2		0
Local Governments (cities, counties)	EA	1	2	2		0
FDOT Drainage	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
<b>Subtotal Technical Meetings</b>				<b>4</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>4</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to 6.19

Carries to Tab 3

**6b. Drainage Plans**

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.

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 or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)		Sheet	0	0	0	
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	
6b.3	Summary of Drainage Structures		Sheet	1	10	10	
6b.4	Optional Pipe/Culvert Material		Sheet	1	2	2	
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	31	1	31	
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	0	0	0	
6b.7	Lateral Ditch Plan/Profile		Sheet	0	0	0	
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	
6b.9	Retention/Detention Ponds Detail Sheet(s)		Sheet	0	0	0	
6b.10	Retention Pond Cross Sections		EA	0	0	0	
6b.11	Erosion Control Plan Sheet(s)		Sheet	0	0	0	
6b.12	SWPPP Sheet(s)		Sheet	1	4	4	
<b>Drainage Plans Technical Subtotal</b>						<b>47</b>	
6b.13	Quality Assurance/Quality Control		LS	%	5%	2	
6b.14	Supervision		LS	%	5%	2	
<b>6. Drainage Plans Total</b>						<b>51</b>	

**Project Activity 7: Utilities**

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.  
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/ Unit	Total Hours	Comments
7.1	Utility Kickoff Meeting	LS			0	
7.2	Identify Existing Utility Agency Owners (UAO(s))	LS	1	4	4	Call Sunshine, prepare initial contact letters.
7.3	Make Utility Contacts	LS	1	20	20	1 hrs per utility company (assumed 10 utilities) x 2 contacts = 20 hrs.
7.4	Exception Processing	LS	1	0	0	N/A
7.5	Preliminary Utility Meeting	LS	1	0	0	None is needed
7.6	Individual/Field Meetings	LS	1	0	0	
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	10	10	1 hrs per utility company (assumed 10 utilities will provide marked ups)
7.8	Subordination of Easements Coordination	LS	1	0	0	N/A
7.9	Utility Design Meeting	LS	1	4	4	Prepare meeting agenda, conduct meeting, prepare meeting minutes, includes travel time
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	1	6	6	1hrs x 6 utilities assumed to be impacted due to drainage work
7.11	Utility Coordination/Followup	LS	1	6	6	1 hrs x 6 utilities impacted = 6 hrs.
7.12	Utility Constructability Review	LS	1	6	6	1 hrs x 6 utilities impacted = 6 hrs.
7.13	Additional Utility Services	LS	1	0	0	
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	
7.15	Contract Plans to UAO(s)	LS	1	0	0	
7.16	Certification/Close-Out	LS	1	6	6	1 hrs x 6 utilities impacted = 6 hrs.
7.17	Other Utilities	LS	1	0	0	
<b>7. Utilities Total</b>					<b>62</b>	

**Project Activity 8: Environmental Permits**

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.

TBD

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

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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
<b>Environmental Permits, Compliances and Clearances</b>						
8.1	Preliminary Project Research	LS	1	6	6	6 hrs for project research.
<b>Permits</b>						
8.2	<b>Field Work</b>					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	0	0	
8.2.3	Species Surveys	LS	1	0	0	
8.2.4	Archeological Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	0	0	
8.4	<b>Complete And Submit All Required Permit Applications</b>					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	0	0	
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Prepare Dredge and Fill Sketches (as needed)	LS	1	0	0	
8.6	Prepare USCG Permit Sketches	LS	1	0	0	
8.7	Prepare Water Management District Right-of-Way Occupancy Permit	LS	1	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare Tree Permit Information	LS	1	0	0	
8.10	Mitigation Design	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	0	0	

**Project Activity 8: Environmental Permits**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.12	Other Environmental Permits	LS	1	0	0	
	<b>Environmental Clearances/Reevaluations</b>					
8.13	<b>Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)</b>					
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Features	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat	LS	1	0	0	
8.13.5	Wildlife and Habitat Impact Analysis	LS	1	0	0	
8.13.6	Section 7 or Section 10 Consultation	LS	1	0	0	
8.14	<b>Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)</b>					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Features	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat	LS	1	0	0	
8.14.5	Wildlife and Habitat Impact Analysis	LS	1	0	0	
8.14.6	Section 7 or Section 10 Consultation	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	
	<b>Environmental Permits, Compliance, and Clearances/Reevaluations Technical Subtotal</b>				<b>6</b>	
8.17	Technical Meetings	LS	1	0	0	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	%	5%	0	
8.19	Supervision	LS	%	5%	0	
	<b>Environmental Permits, Compliance and Clearances Nontechnical Subtotal</b>				<b>0</b>	
8.20	Coordination	LS	%	2%	0	
	<b>8. Environmental Permits, Compliance and Clearances Total</b>				<b>6</b>	

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

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.

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	
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	6	6	6 plan sheets x 1 hr.
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>36</b>	
19.11	Field Reviews	LS	1	4	4	2 people x 1 field reviews x 2 hrs
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>8</b>	
19.16	Coordination	LS	%	2%	1	
<b>19. Signing and Pavement Marking Analysis Total</b>					<b>45</b>	

Project Activity 19: Signing and Pavement Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments	
Technical Meetings		Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
	Sign Panel Design	EA	0	0	0		0
	Queue Length Analysis	EA	0	0	0		0
	Local Governments (cities, counties)	EA	0	0	0	yes	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

NW 112th Avenue from NW 25 St. to NW 34 St.

TBD

<b>Representing</b>	<b>Print Name</b>	<b>Signature / Date</b>
City of Doral	Eugene Collings, PE	
<b>Consultant Name</b>	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	0	0	0	0	
20.2	Summary of Pay Items Including TRNS-Port Input		LS	0	0	0	0	
20.3	Tabulation of Quantities		Sheet	1	8	1	8	
20.4	General Notes/Pay Item Notes		Sheet	0	0	0	0	
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet		Sheet	6	3	6	18	
20.7	Typical Details		EA	1	4	1	4	Include District RPM details.
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	0	0	0	0	
20.13	Interim Standards		LS	0	0	0	0	
<b>Signing and Pavement Marking Plans Technical Subtotal</b>						<b>8</b>	<b>30</b>	
20.14	Quality Assurance/Quality Control		LS	%	5%		2	
20.15	Supervision		LS	%	5%		2	
<b>20. Signing and Pavement Marking Plans Total</b>						<b>8</b>	<b>34</b>	



**Project Activity 23: Lighting Analysis**

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.

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
23.1	Lighting Justification Report	LS	1	0	0	
23.2	Lighting Design Analysis Report	LS	1	24	24	Includes analysis and photo metrics of typical section, poles, luminaire, wind loading, conventional and hardware criteria. The lighting design analysis report includes a description of the applicable FDOT Lighting Design Criteria that will be used for the project, including the pole nominal height, luminaire photometric distribution type, arm length, pole arrangement and location.
23.3	Aeronautical Evaluation	LS	1	0	0	
23.4	Voltage Drop Calculations	LS	1	8	8	Voltage drop calculation for each circuit and load center to verify that conductors are sized properly.
23.5	FDEP Coordination and Report	LS	1	0	0	
23.6	Reference and Master Design Files	LS	1	24	24	Establishing the lighting master design file to include all applicable reference files. This includes all work to create elements showing the alignment in plan view. Includes design and layout of proposed light poles, conductors and conduit runs, load center locations, pull box, service points, electrical service feed, and efforts required for drafting and clean up of reference files. 30 hrs
23.7	Temporary Lighting	LS	1	0	0	
23.8	Design Documentation	LS	1	0	0	
23.9	Quantities	LS	1	6	6	6 sheets for lighting plans only x 1 hrs per sheet
23.10	Cost Estimate	LS	1	0	0	
23.11	Technical Special Provisions	LS	1	0	0	
23.12	Other Lighting Analysis	LS	1	0	0	
<b>Lighting Analysis Technical Subtotal</b>					<b>62</b>	
23.13	Field Reviews	LS	1	4	4	1 field reviews x 2hrs each x 2 people, includes travel time
23.14	Technical Meetings	LS	1	2	2	
23.15	Quality Assurance/Quality Control	LS	%	5%	3	
23.16	Independent Peer Review	LS	%	0%	0	
23.17	Supervision	LS	%	5%	3	
<b>Lighting Analysis Nontechnical Subtotal</b>					<b>12</b>	
23.18	Coordination	LS	%	2%	1	
<b>23. Lighting Analysis Total</b>					<b>75</b>	

**Project Activity 23: Lighting Analysis**

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
FDOT Lighting Design	EA	0	0	0		0
FDOT Traffic Design	EA	0	0	0		0
Power Company (service point coordination)	EA	0	0	0		0
Maintaining Agency (cities, counties)	EA	1	2	2		0
Airport authority	EA	0	0	0		0
FDEP Lighting (coast areas)	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
<b>Subtotal Technical Meetings</b>				<b>2</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>2</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to 23.14

Carries to Tab 3

24. Lighting Plans

Estimator: Eithel M. Sierra, PE

NW 112th Avenue from NW 25 St. to NW 34 St.

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
24.1	Key Sheet		Sheet	0	0	0	0	
24.2	Summary of Pay Items Including Designer Interface (TRNS•Port) Input		Sheet	0	0	0	0	
24.3	Tabulation of Quantities		Sheet	1	8	1	8	Place pay item numbers, descriptions, quantities and totals on tabulation sheet(s). Includes 8 hours based on the 1st tabulation sheet
24.4	General Notes/Pay Item Notes		Sheet	1	4	1	4	Project Specific Notes.
24.5	Pole Data, Legend and Criteria		Sheet	1	8	1	8	Modify general legend description, wind speed, uniformity ratios, develop pole data, pull station and offset of each pole and update pole descriptions. 8 hours for the first sheet
24.6	Service Point Details		Sheet	1	8	1	8	Provide notes directing the type of service point feed, (underground /overhead) length of conductor and disconnect location for load center, and pay item numbers. Special details if required. Provide description and notes.
24.7	Project Layout		Sheet	0	0	0	0	
24.8	Plan Sheet	50	Sheet	6	3	6	18	
24.9	Special Details		Sheet	0	0	0	0	
24.10	Temporary Lighting Data and Details		Sheet	0	0	0	0	
24.11	Traffic Control Plan Sheets		Sheet	0	0	0	0	
24.12	Interim Standards		LS	1	0		0	
<b>Lighting Plans Technical Subtotal</b>						<b>10</b>	<b>46</b>	
24.13	Quality Assurance/Quality Control		LS	%	5%		2	
24.14	Supervision		LS	%	5%		2	
<b>24. Lighting Plans Total</b>						<b>10</b>	<b>50</b>	



**A&P Consulting Transportation Engineers**

10305 N.W. 41<sup>st</sup> Street, Suite 115  
Miami, Florida 33178  
Phone: (305) 592-7283  
Fax: (305) 593-1594

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**EXHIBIT B**  
**FEE PROPOSAL**  
**SUB-CONSULTANTS**

Mr. Eithel M. Sierra, P.E.  
A&P Consulting Transportation Engineers Corp.  
10305 N.W. 41<sup>st</sup> Street, Suite 115  
Doral, FL 33178

April 24, 2017  
(Revised May 3, 2017)

**Re: Revised Proposal for Geotechnical Services for Roadway Widening and Drainage Improvement  
Along NW 112<sup>th</sup> Avenue  
From NW 25<sup>th</sup> Street to NW 34<sup>th</sup> Street  
City of Doral, Florida  
GEOSOL Proposal No. P-217143-R1**

Dear Mr. Sierra:

In accordance with your requests on April 19 and May 3, 2017, Geosol, Inc. (GEOSOL) is pleased to submit this revised proposal pertaining to geotechnical services for the above-referenced project. Based on our review of your e-mail on April 19, 2017, we understand that the project will consist of roadway widening, milling and resurfacing of existing roadway, and drainage improvement along NW 112<sup>th</sup> Avenue from NW 25<sup>th</sup> Street to NW 34<sup>th</sup> Street. The total length of the proposed roadway and drainage improvements is approximately 2,850 feet. Based on the scope of services you provided, the following geotechnical services will be required:

- 1) Perform fifteen (15) Standard Penetration Test (SPT) borings to depths of 10 feet for use in roadway design. The SPT borings will be generally performed at 200-foot intervals staggered left and right along the alignment of the proposed roadway widening. The SPT boring will be performed in accordance with ASTM D-1586.
- 2) Obtain four (4) asphalt pavements cores from the existing roadway for use in evaluation of milling and resurfacing improvements. Also, we will perform an SPT boring at each of the coring locations to a depth of 2 feet below the asphalt in order to determine the type and thickness of the base and sub-base materials.
- 3) Perform three (3) Limerock Bearing Ratio (LBR) and proctor tests on "bulk" soil samples collected along the project alignment, Limerock Bearing Ratio (LBR) and proctor tests will be performed in general accordance with the Florida Department of Transportation Standard FM 5-515 including Modified Proctor testing.
- 4) Perform two (2) borehole percolation tests for use in drainage evaluations and design at a depth of 15 feet.
- 5) Perform laboratory classification testing on select soil and water samples.

Based on the anticipated field exploration program, we anticipate that the required services can be completed within in a 5 to 6 week period after receiving Notice to Proceed. This includes, underground utility clearances, field work, laboratory testing, and report preparation.

Based on our interpretation of your requirements, we are willing to complete the geotechnical services and report preparation for a total of **\$13,315.00**. We have enclosed a detailed Fee Proposal for your review.

GEOSOL appreciates the opportunity to work with you on these projects. If you have any questions, please do not hesitate to contact us.

Sincerely,  
**GEOSOL, INC.**



Oracio Riccobono, P.E.  
Senior Geotechnical Engineer/President

Attachments: 1) Fee Proposal



5795-A N.W. 151<sup>st</sup> Street  
Miami Lakes, FL 33014  
Phone (305) 828-4367; Fax (305) 828-4235  
E-mail: geosolusa@bellsouth.net

**GEOSOL, INC.**  
**FEE PROPOSAL FOR GEOTECHNICAL SERVICES**  
**Roadway and Drainage Improvements Along NW 112th Avenue**  
**From NW 25th Street to NW 34th Street**  
**City of Doral, Florida**

**GEOSOL PROPOSAL No. P-217143**

<u>DESCRIPTION</u>	UNITS	# OF UNITS	UNIT RATE (\$)	TOTAL \$
<b><u>1. FIELD INVESTIGATION</u></b>				
Mobilization of Truck Mounted Drill Rig	day	3	\$350.00	\$1,050.00
Standard Penetration Test Borings - 15 borings to 10 ft in depth for roadway widening and 4 borings to 2 ft in depth for base & subbase check	feet	158	\$15.00	\$2,370.00
Asphalt Pavement Cores	each	4	\$125.00	\$500.00
Borehole Percolation Testing - 2 locations at 15 feet	each	2	\$350.00	\$700.00
Grout Seal Boreholes	feet	188	\$5.00	\$940.00
Senior Technician (Boring Layout, Utility Clearance, Field Meetings, and Collecting LBR samples)	hour	10	\$70.00	\$700.00

**SUB-TOTAL (FIELD EXPLORATION PROGRAM)**

**\$6,260.00**

**2. LABORATORY PROGRAM**

Natural Moisture	each	8.0	\$15.00	\$120.00
Grain Size Analysis	each	6.0	\$45.00	\$270.00
Material Finer than 200 Sieve	each	6.0	\$30.00	\$180.00
Organic Content	each	4.0	\$55.00	\$220.00
Limerock Bearing Ratio (LBR)	each	3.0	\$350.00	\$1,050.00
Proctor Test	each	3.0	\$125.00	\$375.00
Resistivity (Corrosion) Testing	each	1.0	\$120.00	\$120.00

**TOTAL LABORATORY PROGRAM**

**\$2,335.00**

**TOTAL FIELD AND LABORATORY PROGRAM**

**\$8,595.00**

**3. ENGINEERING AND TECHNICAL SERVICES**

Senior Project Engineer	hour	6	\$175.00	\$1,050.00
Project Engineer	hour	16	\$130.00	\$2,080.00
Engineer Intern	hour	16	\$90.00	\$1,440.00
CADD Technician	hour	2	\$75.00	\$150.00

**SUB-TOTAL (ENGINEERING SERVICES)**

**\$4,720.00**

**TOTAL GEOTECHNICAL FEES FOR PROJECT**

**\$13,315.00**



Friday, May 05, 2017

VIA EMAIL: [EMSierra@APCTE.com](mailto:EMSierra@APCTE.com)  
NW 112 AVE FROM 25 ST TO 34 ST

Eithel M. Sierra, P.E.  
Senior Project Engineer  
**A&P CONSULTING TRANSPORTATION ENGINEERS**  
10305 N.W. 41st Street, Suite 115  
Miami, FL 33178

**RE:** Surveying services for roadway widening along NW 112 Avenue from NW 25 Street to NW 34 Street, Doral, FL

Dear Mr. Sierra,

We understand that the City of Doral is considering the road widening of NW 112 Avenue. Pursuant to this request the City is in need of a survey for design purposes extending 20-feet beyond the rights of way on either side, making the survey corridor in effect 110-feet wide. For the most part the corridor is mostly open, however there will be instances where surveying the additional 20-feet into the right of way will be time consuming and will need coordination with the property owners. The survey is also to extend 200-feet into any side streets. In lieu of this request, a fee estimate for surveying and mapping services for the above referenced scope of work, LONGITUDE SURVEYORS, LLC (LS), is pleased to submit the following proposal for your consideration.

**A. Scope of Work:**

Longitude will perform a Topographic Survey including the following information:

- Right-of-way and property lines for the project area and adjacent properties will be shown graphically.
- A graphical baseline will be created and included.
- Location of all overhead utilities, sidewalks, curb and gutters, paved roads, fences, signs, driveways, trees, manholes, catch basins, valves/valve boxes and any other aboveground improvements within the survey limits.
- LS will provide both the scientific and common name of the tree, diameter at breast height (DBH), height and canopy.
- Longitude will create a Digital Terrain Model (DTM).
- Invert and grate elevations for all project area storm and sanitary structures.
- Control points will be set outside the project limits, in locations where they can be used by the contractor during construction.
- All points will have Northing and Easting coordinates referenced to the Florida State Plane Coordinate System, based on the North American Datum of 1983/2011.
- All elevations will be referenced to the National Geodetic Vertical Datum of 1929 (NGVD29).

**B. Survey Limits:**

Along NW 112th Avenue from NW 25th Street to NW 34th Street, Doral, FL. LS will extend the survey 20-feet beyond the rights of way, and 200-feet into the side streets. (See attached Exhibit "B").

**C. Deliverables:**

LS will deliver signed and sealed paper copies of the resulting survey and an electronic copy of the resulting cad file.

**D. Timeline:**

Longitude has estimated twenty-five business days to complete this task.

**E. Fee:**

The total professional fee to complete this task shall be a lump sum of \$15,000.00.

I understand and agree by signing below "I APPROVE AND ACCEPT" this proposal as a legal binding contract.

By: \_\_\_\_\_  
(Authorized Signature)  
\_\_\_\_\_  
(Typed or printed name)

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

On behalf of the firm, I thank you for the opportunity to present this proposal. We look forward to utilizing our best professional efforts on your behalf on this very important project.

Respectfully Yours,

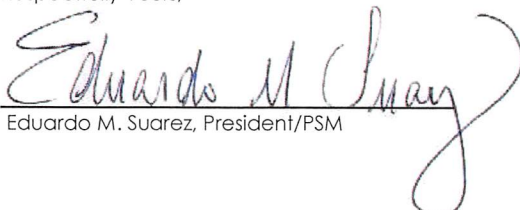
  
Eduardo M. Suarez, President/PSM



Exhibit "B"

Google Earth

© 2016 Google

655 755

655 755



May 5, 2017

Mr. Eithel Sierra  
A&P Consulting Transportation Engineers  
10305 N.W. 41st Street, Suite 115  
Doral, Florida 33178

**RE: Landscape Architectural Professional Services**  
**Project Name: NW 112 Ave Tree Relocation Plans**  
**Project Location: From NW 25 Street to NW 34 Street in City of Doral**  
**Keith and Schnars Proposal**

Dear Mr. Sierra:

In accordance with your request and subsequent discussions between members of our association and yourself, this agreement between Keith and Schnars, P.A. ("CONSULTANT"), and A&P Consulting Transportation Engineers ("CLIENT") for professional landscape architectural services is submitted for your consideration and approval. CONSULTANT shall begin work within ten (10) days after receipt of a fully executed copy of this Agreement.

## I. PURPOSE OF AGREEMENT/PROJECT DESCRIPTION

The purpose of this Agreement is to outline the scope of services recommended by CONSULTANT and accepted by CLIENT and to establish the contractual conditions between CONSULTANT and CLIENT with respect to the proposed services.

CONSULTANT shall provide professional services associated with the Tree Relocation plans and Tree removal Permit submission for project located on NW 112 Avenue from NW 25 Street to NW 34 Street within the City of Doral, Miami Dade County, Florida.

## II. SCOPE OF SERVICES

### Section 1: Landscape Architecture Services

#### 1.01 TREE DISPOSITION / RELOCATION PLAN

CONSULTANT shall perform a tree inventory using the tree survey supplied by CLIENT in cadd DXF format. CONSULTANT shall prepare an existing tree plan and tabulation based on the

roadway plan and survey described below. CONSULTANT shall prepare a Tree Relocation Plan that will graphically depict existing trees on up to 3 proposed recipient sites. Recipient site base information provided by CLIENT.

CONSULTANT'S estimated hourly fee for this service shall be .....\$ 9,472.32

**1.02 TREE PRESERVATION/REMOVAL PERMIT**

CONSULTANT shall prepare the tree preservation/removal schedule for the existing trees based on the tree survey, existing plan, and tree relocation plans for submission to Miami Dade County. The tree preservation/removal schedule will be developed in conjunction with and shown on the tree relocation plan. Trees requiring Commission approval and revisions after work has started will be additional services.

The CLIENT shall provide the CONSULTANT with the following:

1. Proof of ownership of property documentation as required by the Miami Dade County.
2. Tree Survey signed and sealed by a registered surveyor.
3. All review related fees.
4. Additional information required by the Miami Dade County.

CONSULTANT'S estimated hourly fee for this service shall be.....\$ 2,072.07

The undertaking by CONSULTANT to perform professional services defined within this Agreement extends only to those services specifically described herein. If requested by the CLIENT and agreed to by CONSULTANT, CONSULTANT agrees to perform additional services hereunder. CLIENT shall be obligated to pay CONSULTANT for the performance of such additional services an amount (in addition to all other amounts payable under this Agreement) based on an hourly fee in accordance with CONSULTANT'S current professional fee schedule, plus reimbursable expenses as incurred by CONSULTANT, unless a lump sum addendum to this Agreement is executed by the parties to this

Agreement which addresses the additional services.

Additional services shall include revisions to work previously performed that are required due to a change in the data or criteria furnished to CONSULTANT, a change in the scope or concept of the project initiated by CLIENT, or services that are required by changes in the requirements of public agencies after work under this Agreement has commenced.

If the preceding scope of services includes public agency permitting, our quoted fees/hours include services to respond to the agency's first RAI (Request for Additional Information). Additional agency requests or requirements shall be considered an increase to our scope of services.

### III. COMPENSATION

#### A. Fees:

*We estimate our fees for the Landscape Architecture Services described in Section 1 will be Eleven Thousand, Five Hundred and forty-four Dollars and 39 cents (\$11,544.39).*

TREE DISPOSITION / RELOCATION PLAN	\$9,472.32
TREE PRESERVATION/REMOVAL PERMIT	\$2,072.07
	<hr/>
	\$11,544.39

#### B. Payments and Invoicing:

Invoices will be submitted by CONSULTANT to CLIENT monthly for services performed and expenses incurred pursuant to this Agreement during the prior month. Payment of such invoice will be due upon presentation. CONSULTANT'S standard invoice format shall apply and such format shall be acceptable to CLIENT for payment, unless otherwise agreed to in writing hereunder. Invoices shall be submitted monthly based on a percentage completed for lump sum contracts. On a Time and Material contract, invoices shall be submitted in accordance with our current professional service fee schedule as seen on "Exhibit A" attached. The retainer provided by Client at the time of entering into this Agreement shall be credited against the final invoice.

In the event of any dispute concerning the accuracy of content of any invoice, CLIENT will within seven (7) days from the date of said invoice, notify CONSULTANT in writing stating the exact nature and amount of the dispute. Any invoice that is not questioned within seven (7) days shall be deemed

due and payable. In the event an invoice or portion of an invoice is disputed within seven (7) days, CLIENT shall be obligated to pay the undisputed portion of the invoice as set forth in below.

If CLIENT fails to make any payment due to CONSULTANT for services and expenses within forty-five (45) days from the date of invoice, the amount stated in the invoice shall then accrue interest at the maximum legal rate. Further, CONSULTANT may then apply the retainer to the unpaid balance of the account and/or suspend services under this Agreement until the account has been paid in full. There will be a fee charged for suspended work, which will be negotiated when work is resumed and any applied retainer must then be reinstated to its previous amount.

In the event any invoice or any portion thereof remains unpaid for more than sixty (60) days following the invoice date, CONSULTANT may, following seven (7) days prior written notice to CLIENT, initiate legal proceedings to collect the same and recover, in addition to all amounts due and payable, including accrued interest, its reasonable attorneys' fees and costs.

The invoices referenced above, will be sent in accordance to the information as reflected on the Billing Information Form attached hereto.

C. Reimbursable Expenses:

Rather than itemize reimbursable expenses, CONSULTANT's invoices shall contain a single line item for ordinary and customary expenses in the amount of five (5) percent of the gross invoice amount. For the purpose of this section, ordinary and customary expenses shall mean any expense related to Project (excluding large format or color printing, exhibits or any deliverables beyond those articulated in Article II herein, sub-consultant fees, sub-consultant's expenses and any travel further than 50 miles from the location of CONSULTANT's office where it is performing the majority of the services). Non-ordinary or customary expenses shall be invoiced by a separate line item at the actual cost plus a ten (10) percent carrying charge.

#### IV. PROVISIONS RELATIVE TO THE SERVICES RENDERED

A. Re-use of Documents:

All original documents, including, but not limited to, drawings, sketches, specifications, maps, as-built drawings, reports, test reports, etc., that result from CONSULTANT'S services pursuant to or under this Agreement remain the sole property of CONSULTANT and are not intended or represented to be suitable for re-use by CLIENT or others.

CLIENT may, at their expense, obtain a set of reproducible copies of any maps and/or drawings prepared for them by CONSULTANT, in consideration of which CLIENT agrees that no additions, deletions, changes or revisions shall be made to same without the express written consent of the CONSULTANT. Any re-use without written verification of adaptation by CONSULTANT mandates that CLIENT indemnify and hold CONSULTANT harmless from all claims, damages, losses and expenses, including, but not limited to, attorney's fees, arising out of or resulting there from.

Photographs of any completed project embodying the services of CONSULTANT provided hereunder may be made by CONSULTANT and shall be considered as its property, and may be used for publication.

B. Performance:

CONSULTANT shall not be considered in default in performance of its obligations hereunder if performance of such obligations is prevented or delayed by acts of God or government, labor disputes, failure or delay of transportation, subcontractors, or any other similar cause or causes beyond the reasonable control of CONSULTANT. Time of performance of CONSULTANT'S obligations hereunder shall be extended by time period reasonably necessary to overcome the effects of such force majeure occurrences.

C. Professional Standards:

All work performed by CONSULTANT shall be in accordance with its professional standards and in accordance with applicable government regulations. CONSULTANT shall endeavor to obtain all governmental approvals contemplated under this Agreement. However, CONSULTANT does not warrant or represent that any government approval will be obtained.

Unless the Scope of Services of this Agreement includes an investigation into the applicable land use, zoning and platting requirements for the Project, CONSULTANT shall proceed on the assumption that the Project as presented by CLIENT, is in accordance with applicable governmental regulations.

D. Opinions of Cost:

Since CONSULTANT does not have control over the cost of labor, materials, equipment or services furnished by others or their methods of determining prices, competitive bidding, market conditions, any and all opinions as to costs rendered hereunder, including, but not limited to, opinions as to the costs of construction and materials, shall be made solely on the basis of its experience and qualifications and represent only a rough estimate based upon its familiarity with the construction industry.

CONSULTANT cannot and does not guarantee that proposals, bids or actual costs will not vary from opinions of probable cost. If CLIENT wishes greater assurance as to the amount of any cost, CLIENT will employ an independent cost estimator to make such determination. Engineering services required to bring costs within any limitation established by CLIENT will be paid for as additional services hereunder by CLIENT.

If the services under this Agreement continue for a period of more than one (1) year from the notice to proceed, CONSULTANT shall be entitled to renegotiate an increase in its fee relative to this Agreement. CONSULTANT shall not be bound under this Agreement if modifications to the terms contained herein are made without the written consent of CONSULTANT (such consent to be signified by CONSULTANT'S initials next to each modification, and if a fully executed copy hereof is not received from CLIENT by CONSULTANT on or before sixty (60) calendar days from the date of execution by CONSULTANT.

E. Termination:

In event of a material failure by the other party to perform in accordance with the terms of this Agreement, this Agreement may be terminated by providing the breaching party written notice which shall clearly set forth the material breach and provide five (5) business days to cure. For the purpose of this Agreement, the failure to pay any invoice submitted by CONSULTANT within sixty (60) days of the date of said invoice shall be considered a material breach on behalf of CLIENT. In the event of any termination, CONSULTANT shall be paid for all services rendered to the date of termination including all reimbursable expenses. CLIENT may terminate this Agreement for convenience upon five (5) business day notice to CONSULTANT, payment for all services rendered to the date of termination and Fifteen (15) percent of CONSULTANT'S remaining fee.

F. Liability:

CONSULTANT is protected by Workmen's Compensation Insurance, Professional Liability Insurance and by Public Liability Insurance for bodily injury and property damage and will furnish certificates of insurance upon request. CONSULTANT agrees to hold CLIENT harmless from loss, damage, injury or liability arising solely from the negligent acts or omission of CONSULTANT, its employees, agents, subcontractors and their employees and agents, but only to the extent that the same is actually covered and paid under the foregoing policies of insurance. If CLIENT requires increased insurance coverage, CONSULTANT will, if specifically directed by CLIENT, secure additional insurance obtained at CLIENT'S expense.

CLIENT agrees CONSULTANT'S aggregate liability to CLIENT and all construction and professional

contractors and subcontractors employed directly or indirectly by CLIENT on the Project, due to or arising from CONSULTANT'S services under this Agreement or because of the relation hereby of CONSULTANT, its agents, employees or subcontractors, or otherwise, is and shall be limited to CONSULTANT'S total fees under this Agreement or \$50,000.00 whichever is greater. In no event shall CONSULTANT be liable for any indirect, special or consequential loss or damage arising out of the services hereunder including, but not limited to, loss of use, loss of profit, or business interruption whether caused by the negligence of CONSULTANT or otherwise.

CLIENT agrees that CONSULTANT shall have no liability to CLIENT, or to any person or entity employed directly or indirectly by CLIENT in the project for damages of any kind from services rendered by CONSULTANT relating to the testing for, monitoring, cleaning up, removing, containing, treating, detoxifying or neutralizing of pollutants, whether or not, caused by the negligence of CONSULTANT.

G. Litigation:

In the event litigation in any way related to the services performed hereunder is initiated between CONSULTANT and CLIENT, the non-prevailing party shall reimburse the prevailing party for all of its reasonable attorney's fees and costs related to said litigation.

## V. CLIENT'S OBLIGATIONS

CLIENT shall provide CONSULTANT with all data, studies, surveys, plats and all other pertinent information concerning the Project. CLIENT shall designate a person to act with authority on CLIENT'S behalf with respect to all aspects of the Project. CLIENT shall be responsible for all processing fees or assessments required for the completion of the Project. CLIENT shall provide CONSULTANT access to the Project site at reasonable times upon reasonable notice.

## VI. GENERAL PROVISIONS

A. Persons Bound by Agreement:

The persons bound by this Agreement are CONSULTANT and CLIENT and their respective partners, successors, heirs, executors, administrators, assigns and other legal representatives. This Agreement and any interest associated with this Agreement may not be assigned, sublet or transferred by either party without the prior written consent of the other party, such consent not to be unreasonably withheld. Nothing contained herein shall be construed to prevent CONSULTANT from employing such independent consultants, associates and sub-consultants, as CONSULTANT may deem

appropriate to assist in the performance of the services hereunder. Nothing herein shall be construed to give any rights or benefits arising from this Agreement to anyone other than CONSULTANT and CLIENT.

B. No Waiver or Modifications:

No waiver by CONSULTANT of any default shall operate as a waiver for any other default or be construed to be a waiver of the same default on a future occasion. No delay, course of dealing or omission on the part of CONSULTANT in exercising any right or remedy shall operate as a waiver thereof, and no single or partial exercise by CONSULTANT of any right or remedy shall preclude any other or further exercise of any right or remedy.

This Agreement, including all requests for additional services placed hereunder, express the entire understanding and agreement of the parties with reference to the subject matter hereof, and is a complete and exclusive statement of the terms of this Agreement, and no representations or agreements modifying or supplementing the terms of this Agreement shall be valid unless in writing, signed by persons authorized to sign agreements on behalf of both parties.

C. Governing Laws or Venue:

This Agreement shall be governed, construed, and enforced in accordance with the laws of the State of Florida. Venue for any litigation shall be Broward County, Florida.

## VII. CLOSURE

If you concur with the foregoing and wish to direct us to proceed with the aforementioned work, please execute the agreement in the space provided and return same to the undersigned with the required retainer and completed billing information form.

We appreciate the opportunity to submit our proposal. Please contact me if you have any questions.




Agreement for Professional Services: A&P Consulting Transportation Engineers  
Project Name: NE 112 Ave from NW 25 St. to NW 34 St.  
Project Location: City of Doral  
Keith and Schnars Proposal No.  
May 5, 2017 – Page 9

**PURSUANT TO FLORIDA STATUTE 558.0035, AN INDIVIDUAL  
EMPLOYEE OR AGENT MAY NOT BE HELD INDIVIDUALLY  
LIABLE FOR NEGLIGENCE**

IN WITNESS WHEREOF, the CONSULTANT and CLIENT have executed this agreement the day and year indicated below.

As to CONSULTANT  
**KEITH and SCHNARS, P.A.**  
Engineers, Planners, Surveyors

As to CLIENT

  
\_\_\_\_\_

\_\_\_\_\_  
Name: Eithel Sierra

Name: Kirk Hoosac

Title: Director

Title: Senior Project Manager

Division Landscape Architecture

Dated: April 25, 2017

Dated: \_\_\_\_\_

## EXHIBIT A

### Hourly Rate Schedule

(2014- City of Doral)

#### CONSULTANT'S BILLING RATE

Job Classification	Rate / Hour
Principal Engineer	\$190.75
Project Manager	\$175.00
Senior Engineer	\$164.02
Project Engineer	\$135.00
GIS Technician	\$100.00
CADD Technician	\$85.00
Engineering Technician	\$83.16
Construction Inspector	\$81.75
Senior Architect	\$122.88
Architect	\$88.75
Landscape Architect	\$98.67
Clerical	\$65.00

## EXHIBIT B

### Direct Expenses

### Cost per Unit

#### Photographic Copies

##### Color Copies

a) 8.5" x 11"	\$ 2.00
b) 8.5" x 14 or 11"x 17"	\$ 3.00
c) 24"x 36"	\$30.00

##### Black & White Copies

a) Any Size up to 11"x17"	\$ 0.50
b) 24"x 36" Blackline	\$ 5.00
c) 30" x 42" Blackline	\$ 5.00
d) 24" x 36" Sepia	\$20.00
e) 24"x 36" Mylar	\$3.00

Laminating/Transparency Film Covers \$ 5.00

#### Display Boards

Mounted (Foam) 30"x 40"	\$60.00
Mounted (Foam) 40"x 60" and larger	\$100.00

3 Ring Binders 1" \$ 3.50

Dividers (Tabs) Set of 10 \$ 2.00

Acco/GBC Binding \$ 5.00

Facsimiles \$ 2.50

Overnight Packages/Courier & Delivery Services \$45.00

Postage: 1<sup>st</sup> Class Current US Postal rate

Mileage: \$ 0.56 / mile

***Any other expenses will be billed at cost plus 10% carrying charge.***

**\*\*NOTE:** Typical other reimbursable expenses include travel, lodging, and meals when traveling on CLIENT'S behalf, identifiable communication expenses, all reproduction costs, and special accounting expenses not applicable to general overhead.

Revised 08/01/14

## BILLING INFORMATION FORM

PROJECT NUMBER: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_

PROJECT ADDRESS: \_\_\_\_\_

Street Address

City/State/Zip

CLIENT PROJECT MANAGER  
NAME: \_\_\_\_\_

CLIENT PROJECT MANAGER  
PHONE NO.: (      ) \_\_\_\_\_

LAND OWNER NAME: \_\_\_\_\_

LAND OWNER ADDRESS: \_\_\_\_\_

Street Address

City/State/Zip

LAND OWNER PHONE NO.: (      ) \_\_\_\_\_

LAND OWNER CELL PHONE  
NO: (      ) \_\_\_\_\_

LAND OWNER E-MAIL  
ADDRESS: \_\_\_\_\_

MAIL INVOICE TO: \_\_\_\_\_

Company Name

ATTENTION: \_\_\_\_\_

Name/Title

ADDRESS: \_\_\_\_\_

Street Address/Post Office Box

City/State/Zip

PHONE: (      ) \_\_\_\_\_

FAX: (      ) \_\_\_\_\_

SPECIAL BILLING  
INSTRUCTIONS:

---

---

EMAIL INVOICE TO CLIENT:

YES

---

NO

---

PROJECT NUMBER:

---

## Landscape Relocation Plan for NW 112 Ave from NW 25 St to NW 34 St

Months anticipated project time frame

Labor Category		Landscape Arch		Total Hours	Labor Cost (\$)
Percent Utilization		100.00%			
Hourly Rate		\$98.67			
Task No	Task Title	Hours	Subtotal (\$)		
1.01	Tree Disposition/Relocation Plan	96	\$9,472.32	96	\$ 9,472.32
1.02	MDC Tree Permit	21	\$2,072.07	21	\$ 2,072.07
Totals		117	\$11,544.39	117	\$11,544.39



& Associates, Inc.

CONSULTING ENGINEERS & SURVEYORS  
www.FR-Aleman.com

10305 NW 41 Street, Suite 200  
Miami, Florida 33178  
TEL: (305) 591-8777  
FAX: (305) 599-8749

May 4, 2017

**Eithel M. Sierra, P.E.**  
Senior Project Manager  
[EMSierra@APCTE.com](mailto:EMSierra@APCTE.com)  
**A&P Consulting Transportation Engineers, Corp.**

10305 N.W. 41st Street, Suite 115  
Doral, Florida 33178  
Main Office TEL: (305) 592-7283 Ext. 204  
Direct TEL: (786) 257-3118

**RE: City of Doral - NW 112th Ave. Project from NW 25th St. to NW 34th St.**

Dear Mr. Sierra:

This is our estimate to perform up to twenty-five test holes to verify the existing utilities in conflict with the proposed drainage.

#### Scope of Works

##### 1. SUE Services

Perform Vacuum Excavation Test Holes (VVHS) to verify the Horizontal and Vertical location of the existing underground utilities in conflict the proposed improvements. This estimate is for twenty-five test holes and will be a limited amount based on the final total number of test holes.

Survey control information will be provided to FRA. The estimate does include the survey efforts as well as the preparation of the required submittals. Submittals to include, test hole reports, Summary of utilities (Table) and CADD (Civil 3D or Micro-Station Format)

##### SUE Services

CATEGORY	UNITS		RATE	
Vacuum Escavation Test Holes	25	EACH	\$350.00	\$8,750.00
<b>TOTAL</b>				<b>\$8,750.00</b>

All survey work will comply at all times with the Standards and Practice for Surveying and Mapping, according to Chapter 5J-17.052 of Florida Administrative Code, as adopted by the Board of Professional Surveyors, Chapter 472, Florida Statutes.

If you have any questions, please do not hesitate to contact our office.

Very truly yours,

Frank Paruas PSM  
Project Surveyor

Approved by: \_\_\_\_\_

**Eithel M. Sierra, P.E.**  
APCTE

**RESOLUTION No. 17- 108**

**A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, APPROVING A WORK ORDER BETWEEN THE CITY OF DORAL AND A&P CONSULTING TRANSPORTATION ENGINEERS CORP., A PREQUALIFIED CITY VENDOR, TO PROCEED WITH THE DESIGN SERVICES FOR THE WIDENING OF NW 112 AVENUE FROM NW 25 STREET TO NW 34 STREET IN AN AMOUNT NOT EXCEED \$153,072.41; AUTHORIZING THE CITY MANAGER TO EXECUTE THE WORK ORDER AND EXPEND BUDGETED FUNDS ON BEHALF OF THE CITY IN FURTHERANCE HEREOF; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE**

**WHEREAS**, the City of Doral (the "CITY") Public Works Department ("PWD") wishes to secure a firm to proceed with design services for the widening of NW 112<sup>th</sup> Avenue from NW 25<sup>th</sup> Street to NW 34<sup>th</sup> Street;

**WHEREAS**, A&P Consulting Transportation Engineers Corp. ("A&P") is a prequalified provider of professional engineering services selected in accordance with Consultant Competitive Negotiation Act requirements and approved by the City Council in December 2014; and

**WHEREAS**, Staff has recommended that the City Council approve the Work Order with A&P Consulting Transportation Engineers Corp. to proceed with the design services for the widening of NW 112<sup>th</sup> Avenue from NW 25<sup>th</sup> Street to NE 34<sup>th</sup> Street; in an amount not to exceed \$153,072.41.

**NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, AS FOLLOWS:**

**Section 1. Recitals.** The above recitals are confirmed, adopted, and incorporated herein and made part hereof by this reference.

**Section 2. Approval.** The Work Order between the City of Doral and A&P Consulting Transportation Engineers Corp. for the provision of design services for the



widening of NW 112<sup>th</sup> Avenue from NW 25<sup>th</sup> Street to NE 34<sup>th</sup> Street; in an amount not to exceed \$153,072.41, a copy which is attached hereto as Exhibit "B", which is incorporated herein and made a part hereof by this reference, is hereby approved.

**Section 3. Authorization.** The City Manager is authorized to execute the work order and expend budgeted funds on the behalf of the City, in furtherance hereof.


**Section 4. Implementation.** The City Manager and the City Attorney are hereby authorized to take such further action as may be necessary to implement the purpose and the provisions of this Resolution.

**Section 5. Effective Date.** This Resolution shall take effect immediately upon adoption.

The foregoing Resolution was offered by Councilmember Rodriguez who moved its adoption. The motion was seconded by Vice Mayor Cabrera and upon being put to a vote, the vote was as follows:

Mayor Juan Carlos Bermudez	Yes
Vice Mayor Pete Cabrera	Yes
Councilwoman Christi Fraga	Yes
Councilwoman Claudia Mariaca	Yes
Councilwoman Ana Maria Rodriguez	Yes

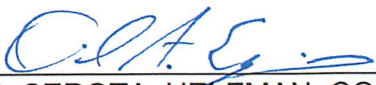
PASSED AND ADOPTED this 14 day of June, 2017.

  
\_\_\_\_\_  
JUAN CARLOS BERMUDEZ, MAYOR

ATTEST:

  
\_\_\_\_\_  
CONNIE DIAZ, CMC  
CITY CLERK

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

  
\_\_\_\_\_  
WEISS, SEROTA, HELFMAN, COLE & BIERMAN, P.L.  
CITY ATTORNEY