

RESOLUTION NO. 2023-

**A RESOLUTION OF THE VILLAGE OF PINECREST,
FLORIDA, AUTHORIZING THE VILLAGE MANAGER TO
ENTER INTO AN AGREEMENT WITH 300 ENGINEERING
GROUP, LLC FOR STORMWATER DRAINAGE DESIGN
SERVICES; PROVIDING FOR AN EFFECTIVE DATE.**

WHEREAS, 300 Engineering Group, LLC. is one of several firms that have been selected by the Village based on an RFQ for Civil Engineering Services.; and

WHEREAS, this project will allow for the drainage design and permitting for sub basin U35-S, rated 4 of 15 for drainage priority per the Stormwater Master Plan;

NOW, THEREFORE, BE IT RESOLVED BY THE VILLAGE COUNCIL OF THE VILLAGE OF PINECREST, FLORIDA, AS FOLLOWS:

Section 1. That the Village Manager is hereby authorized to enter into an agreement with *300 Engineering Group, LLC* for stormwater drainage design services for sub-basin U35-S.

Section 2. This resolution shall be effective immediately upon adoption.

PASSED AND ADOPTED this 10th day of January, 2023.

Joseph M. Corradino, Mayor

Attest:

Priscilla Torres, CMC
Village Clerk

Approved as to Form and Legal Sufficiency:

Mitchell Bierman
Village Attorney

Consent Agenda



Yocelyn Galiano, ICMA-CM
Village Manager
manager@pinecrest-fl.gov

VILLAGE OF PINECREST
Office of the Village Manager

DATE: January 3, 2023
TO: The Honorable Mayor and Members of the Village Council
FROM: Yocelyn Galiano, ICMA-CM, Village Manager
RE: Resolution for Agreement for Stormwater Drainage Design Services

Attached for your consideration, please find a design proposal dated September 12, 2022 from 300 Engineering Group L.L.C. for data collection, design, permitting, and post-design services and support for Sub-basin U35-S. The subject consultant is one of several firms that have been selected by the Village based on an RFQ for Civil Engineering Services.

During Fiscal Year 2022, the Village secured \$500,000 from the State of Florida and \$604,000 from the Federal government to be used toward design and construction of drainage projects throughout the Village. This project will allow for the drainage design and permitting for sub basin U35-S. This basin is rated 4 of 15 for drainage priority per the Stormwater Master Plan.

I hereby respectfully recommend the Village Council adopt the attached resolution authorizing the Village Manager to execute an agreement for engineering design services for Sub-basin U35-S with 300 Engineering in the amount of \$277,533.64.



Village of Pinecrest

RFQ 2019.105

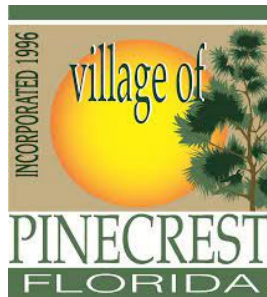
**Engineering Design Services for Stormwater Improvements for
Sub-basin U35-S**

SCOPE OF WORK

DRAFT

September 12, 2022

Village of Pinecrest
Office of Public Works
10800 Red Road
Pinecrest, Florida 33156
Attn. David J. Mendez P.E.
Public Works Director



Prepared by:

300 Engineering Group, L.L.C.
2222 Ponce de Leon Blvd, Suite 300
Coral Gables, Florida 33134
305-602-4602



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Village of Pinecrest

RFQ 2019.015

Engineering Design Services for Stormwater Improvements for Sub-basin U35-S

SCOPE OF WORK

DRAFT

BACKGROUND

The Village of Pinecrest (Village) is a suburban area in southeast Miami-Dade County (County), Florida. Incorporated in 1996, the Village has a population of over 18,000 (based on the 2010 Census) and has a total area of approximately 7.53 square miles. The Village falls within the boundaries of the South Florida Water Management District (SFWMD) C-2 and C-100 Basins. These basins are drained by the C- 2 Canal (Snapper Creek Canal) and the C-100 Canal, both primary SFWMD canals. The C-100 receives discharges from the Village via the C-100A, C-100A Extension Canals (Cutler Drain Canals maintained by SFWMD) and the SW 70th Avenue Canal that it is owned by Miami-Dade to the County but is maintained by the Village of Pinecrest.

The Village has adopted a Stormwater Master Plan (SWMP) to serve as a planning-level engineering document to analyze and provide recommendations to address the Village's flooding issues. The Village has requested a proposal for Stormwater Design Services for Sub-basin U35-S as delineated in the Village's SWMP. Sub-basin U35-S ranked 4th place in its Flood Protection Severity Score (FPSS).

Sub-basin U35-S encompasses approximately 42.4 acres and approximately 3,600 LF of stormwater improvements. The proposed stormwater improvements for Sub-basin U35-S include new exfiltration trenches, solid pipes, catch basins, stormwater manholes, interconnections with the exiting drainage systems and three (3) outfalls to the SW 70th Avenue Canal with corresponding control structures. A Project Area Map depicting the project limits and Conceptual Drainage Plan for Sub-basin U35-S per the Village's SWMP is presented in Appendix D.

DESCRIPTION OF SERVICES

At the request of the Village, 300 Engineering Group, L.L.C. (300 Engineering) is pleased to submit this proposal to perform design and permitting for the stormwater improvements pertaining to Sub-basin U35-S.

The Scope of Work shall be divided into the following tasks:

Subtask	Description
1	Data Collection & Evaluation
2	Design Plans & Specifications

3	Permitting
4	Post Design Services

1. Data Collection & Evaluation

As part of this task, 300 Engineering will obtain, review, and analyze environmental records, survey and soil testing for the Project Area. 300 Engineering will visit the site to collect field data and note existing conditions.

1.1 General Data Collection

The Data Collection & Evaluation Task will provide the necessary information to validate the proposed drainage schematic presented in the Village's SWMP. The validation of the proposed drainage schematic will be presented to the Village identifying proposed drainage improvements and existing conditions, as well as any recommended modifications to the drainage schematic in the SWMP. 300 Engineering will coordinate with Village staff to obtain available data such as land use/vegetation, flooding records (photos, complaints, etc.), existing drainage networks, required level of service, environmental records, and Village design standards.

300 Engineering will request a Sunshine 811 Design Ticket and contact the utility companies to request available underground utility information within the project area. A utility tracking log will be created and maintained showing dates of when utilities were contacted, and any information received. In addition, 300 Engineering will perform one (1) site visit to perform above-ground observations of existing conditions and identify potential site constraints.

As part of this Task, 300 Engineering will attend one (1) meeting with the Village staff.

1.2 Surveying & Mapping

300 Engineering will work with Ardurra to perform surveying services for the project area. Ardurra will carry out a topographic survey including boundary information from available plats (not constituted as Boundary Survey), rim, grate and pipe invert elevations for existing stormwater system, and depiction of above ground features. The survey will be signed and sealed by a Florida Registered Professional Land Surveyor. Please refer to Appendix B for a detailed scope and fee.

1.3 Geotechnical Exploration

300 Engineering will contract the services of a Professional Geotechnical Engineer (Terracon) to perform Standard Penetration Test (SPT) borings at the project site in accordance with the American Society of Testing Materials (ASTM) D-1586. A total of four (4) soil borings to a depth of 15- and 20-feet are estimated, as well as four (4) percolation tests. The geotechnical investigation will provide information on the quality of the soils in the project area for trenching and pipeline installation, as well as soil conductivity information. Please refer to Appendix C for a detailed fee.

Deliverables:

The following deliverables will be submitted to the Village as part of Task 1:

- Signed and sealed site survey
- Signed and sealed Geotechnical Report
- Sunshine 811 Design Ticket and Utility Tracking Log
- Meeting Minutes for Coordination Meeting with the Village

2. Design Plans & Specifications

Under this task, 300 Engineering will prepare a stormwater management report with supporting calculations in accordance with (SFWMD) criteria for stormwater pre-treatment and detention/retention.

300 Engineering will provide analysis and design services for the stormwater improvements related to the Village Sub-basin U35-S and prepare Design documents in accordance with Village applicable plans preparation criteria and CADD standards.

2.1 Drainage Analysis & Documentation

The drainage analysis will be completed for the Project Area based upon the geotechnical and survey information obtained in Task 1. During the analysis, the volume of stormwater runoff will be calculated from the design storm and the capacity of the existing stormwater collection system will be evaluated. The results of the above noted calculations along with the incorporation of budget constraints will be the basis for design of the proposed Stormwater system. The analysis will include incorporating three (3) outfalls to the proposed improvements. The drainage analysis will consider the water quantity treatment performance goals for various events adopted in the latest version of the Village SWMP.

210 Drainage Plans & Specifications

300 Engineering will prepare 60%, 90% and 100% design plans for the construction of stormwater improvements within the Project Area. The basis for design will be the Miami-Dade County Public Works Manual and Florida Department of Transportation (the "FDOT") Standard Indexes where applicable. The specifications will be prepared based on requirements of the Village, SFWMD, MD-RER, DTPW, and any other pertinent regulatory requirements.

The following plan sheets are anticipated to be included in the Design Development Plans:

1. Title Sheet, Project Location Map, and List of Drawings
2. General Notes Plan, Abbreviations, Symbols & Legend
3. Paving & Grading Plan
4. Stormwater Improvements Plan and Profile Sheets
5. Drainage Structures & Cross-Sections
6. Miscellaneous Construction Details
7. Miscellaneous Drainage Details
8. Typical Signing and Pavement Marking Details
9. MOT Standard Details

Deliverables

The following deliverables will be submitted to the Village as part of Task 2:

- 60%, 90 Stormwater Improvement plans (in electronic format)
- Drainage Report (in electronic format)
- Specifications (in electronic format)
- Final 100% signed and sealed Construction Plans
- Final 100% signed and sealed Specifications
- Opinion of Probable Cost (in electronic format)
- Project Schedule (in electronic format)

3. Permitting

300 Engineering will attend one (1) coordination meeting with representatives of Miami Dade County Department of Environmental Resources Management (“DERM”) during the course of the design and permitting process. The intent of the meetings will be to review the proposed design and permitting requirements.

300 Engineering will prepare and submit permit applications to DERM. The package will consist of the permit application form, pre-development and post-development runoff calculations, and the Design Development Plans. Responses to comments (one set of review comments by DERM) will be prepared within the Final Construction Plans. The Village will pay all permit fees directly.

Deliverables:

The following deliverables will be submitted to the Village as part of Task 3:

- RFI Responses
- Signed and sealed Drainage Report
- Approved permits and/or Agency Approved Plans

4. Post Design Services

300 Engineering will provide Limited Procurement Support Services for this project under Task. 4, as shown below:

- Attendance to Pre-bid meeting
- Response to Procurement RFIs
- Assist the Village with the preparation of addenda (Support only)
- Review Contract Bids
- Provide technical support through the Contract Award process

The Village will be responsible for setting the bid opening date, advertisement of the bid, producing, developing, and distributing all necessary procurement documents for the Project and scheduling and conducting the pre-bid meeting.

Services under this task also include attendance to pre-construction meetings, review and comment of shop drawings and response to requests for additional information (RFI) from contractor, & regulatory agencies including RFIs required for building permits. 300 Engineering will maintain a log of RFI's, and shop drawings processed and reviewed. Approval, comments or rejection of shop drawings will be provided within 1 week of receipt. Construction Engineering & Inspection Services will be provided under a separate Scope of Work.

This task will be performed on Time & Materials basis

Deliverables

The following deliverables will be submitted to the Village as part of Task 4:

- Attendance to Pre-bid meeting
- Attendance to Pre-Construction Meeting
- Reviewed Shop Drawings (via electronic delivery in .pdf format)
- Response to RFI's (10 RFI's estimated) (via electronic delivery in .pdf format)
- Reviewed As-builts (via electronic delivery in .pdf format)

SCHEDULE

Design & permitting are anticipated to be completed within 7 months after NTP. A detailed project schedule will be provided at the beginning of the project showing key design & permitting milestones.

COMPENSATION

The services described herein will be performed on a “Lump Sum” basis, except for Task 4. and which will be performed as “Time & Materials” basis. The payment breakdown will be as shown in Appendix A, and as summarized below:

Task	Description	Method of Payment	Amount
1.	Data Collection & Evaluation	Lump Sum	\$14,650.00
1.2	Surveying & Mapping	Lump Sum	\$25,835.00
1.3	Geotechnical Investigations	Lump Sum	\$12,858.64
2.	Design Plans & Specifications	Lump Sum	\$141,850.00
3.	Permitting	Lump Sum	\$26,680.00
4.	Post Design Services	Time & Materials	\$53,660.00
TOTAL			\$277,533.64

ASSUMPTIONS

This Scope of Services is based on the following assumptions:

- Development of a Stormwater Pollution Prevention Plan (SWPPP), also referred to as Erosion and Sedimentation Control Plan, to be prepared by Contractor
- The scope of work is limited to the specific Tasks described herein
- Public Outreach is not included within this scope of work
- Permitting fees will not be paid by 300 Engineering
- Subsurface utility exploration (SUE) and locating services, will be performed under a separate Scope of Work is required and approved by the Village.
- It is assumed that there is no contamination in the project area
- It is assumed that there are existing easements or right-of-way for the installation of outfalls. Easement acquisition or property platting is not included on this proposal.
- Existing utilities verification is limited to information obtained through calls and requests to Sunshine One Call and the utility companies identified by Sunshine One Call
- Environmental Assessment/Remediation activities are not included in this scope of work
- The Village will provide standard contract documents, front-end documents, and technical specifications pertaining to ongoing projects adjacent to our project locations, as well as sample Plans, Cover Sheet and standards.
- Pipeline will be installed via open cut. Trenchless technologies design is not included on this proposal
- 300 Engineering shall not be responsible for any delays in the project caused by response times from the Village, permitting agencies and/or utility owners
- Detailed MOT plans shall be developed by the Contractor and are not included in this scope of work
- Construction Management & Inspections are not included on this proposal. This will be part of a separate Scope of Work
- Performance durations provided assume timely permit processing by Regulatory Agencies having jurisdiction over the project. Delays obtaining permits beyond the control of 300 Engineering and our subconsultants may result in delays to the performance schedule for which 300 Engineering cannot be held liable
- Existing utilities will be identified and considered during the design phases of the project. Utility Relocations
- The Village shall provide desired Level of Service (LOS) for drainage design to 300 Engineering
- 300 Engineering is responsible for the Health & Safety of its employees only
- Village staff will be available to conduct meetings and site visits, as necessary
- MOT details will follow FDOT standards details
- In consideration of this proposal, access to data and information sources is made available to 300 Engineering. 300 Engineering shall comply fully with security procedures, and shall not divulge to third parties all confidential Data Information obtained from the Village in the course of performing consulting engineering work, including, but not limited to, security procedures, business operations information or proprietary information in the possession of the Village. 300 Engineering shall not be required to keep confidential information or material that is publicly available through no fault of 300 Engineering, material that 300 Engineering developed independently without relying on the state's or Village's confidential information, or material that is otherwise obtainable under State Law as a public record
- Should the labor requirements for Tasks 4 exceed the allocated funds for this task, 300 Engineering may require an amendment to this proposal to account for additional funds necessary to continue supporting the Village with activities described in Task 4

- Non-Solicitation of Employees and Independent Contractors and Covenant Not to Hire. The Village agrees that they will not, directly or indirectly, initiate efforts aimed at the hiring of 300 Engineering's employees or independent contractors or solicit, hire, employ, recruit, 300 Engineering's employees or independent contractors, without the prior written approval of 300 Engineering's until after three (3) years from the effective date of this Agreement



APPENDIX A
Proposed Fee Schedule



VILLAGE OF PINECREST
RFQ 2019.015
Engineering Design Services for Stormwater Improvements FOR Sub-basin U35-S
Proposed Fee Schedule



Task	Principal Rate, \$/Hr	Labor Hours					Budget		Remarks	
		Principal	Project Manager	Senior Engineer	Project Engineer	CADD Technician	Total Hours	Labor		Subtotal
	\$215.00 *	\$190.00	\$160.00	\$140.00	\$75.00					
1	DATA COLLECTION & EVALUATION	2	16	8	60	20	106	\$14,650.00	\$14,650.00	
1.2	SURVEYING & MAPPING								\$25,835.00	Surveying Lump Sum. Refer to Appendix B
1.3	GEOTECHNICAL INVESTIGATIONS								\$12,858.64	Geotechnical Lump Sum. Refer to Appendix C
2	DESIGN PLANS & SPECIFICATIONS	8	120	88	400	630	1246	\$141,850.00	\$141,850.00	
3	PERMITTING	4	30	22	90	80	226	\$28,680.00	\$28,680.00	
4	POST DESIGN SERVICES	4	60	80	140	120	404	\$53,660.00	\$53,660.00	
	Total (Hours)	18	226	198	690	850	1982			
	Sub-Total Labor Fee							\$238,840.00	\$277,533.64	
	ODC's (Mileage, Reproduction & Reimbursable) (See Appendix B)								\$0.00	
	Sub-Total Labor Fee/ODC								\$277,533.64	
	Total Project Cost (Labor/ODC)								\$277,533.64	
	% Utilization	0.91%	11.40%	9.99%	34.81%	42.89%	100.00%			
	Total (\$)	\$3,870.00	\$42,940.00	\$31,680.00	\$96,600.00	\$63,750.00			\$277,533.64	



APPENDIX B

Surveying Services

Proposed Scope and Fee Schedule



September 8, 2022

Ms. Paola Davalos, PE, ENV SP
300 Engineering Group, P.A.
2222 Ponce de Leon Blvd, Suite 300
Coral Gables, Florida 33134

RE: Topographic Survey for the Village of Pinecrest (Stormwater improvements for Basin U35-S).

Dear Paola:

Per your email request on September 6, 2022, attached is Ardurra Group, Inc.'s (Ardurra) surveying services proposal for the referenced project.

Survey Scope of Work

Preparation of a topographic survey, from right-of-way to right-of-way (R/W), spanning the limits of the project, approximately 3,600 feet in length. See Exhibit "A", attached herein, for the project area map.

The goals and objectives of the survey are as follows:

1. Establish horizontal and vertical control points.
 - a. Horizontal coordinates will be referenced to the Florida State Plane Coordinate System, Florida East Zone, North American Datum 1983/2011 Adjustment (NAD83/11).
 - b. Vertical control will be referenced to the North American Vertical Datum, 1988 (NAVD 88).
2. Obtain boundary information, such as boundary corners, right-of-way lines, subdivision lines, lot lines, baselines, and easement lines from plats. Boundary data presented on the survey will be for informational purposes only and will not constitute a Boundary Survey.
3. Provide rim/grate and pipe invert elevations for sanitary and storm sewer structures. At the crew chief's discretion, structures with debris or otherwise obscured visibility may not be measured. It shall be the responsibility of the



maintaining authority to clean and or dry-out structures that cannot be appropriately measured.

4. Locate and show above-ground features such as but not limited to: Pavements, Sidewalks, Gutters, Street Lighting, Power Poles, Driveway materials, identification of surface features, Valve covers, Meter Boxes, Lids, and Fire Hydrants.

<u>Service</u>	<u>Lump Sum Fee</u>
I. SURVEY SERVICES	
A. Topographic Survey	<u>\$ 25,825.00</u>
GRAND TOTAL.....	\$ 25,825.00

Notes:

- Sub-Surface Utilities to be designated by others.
- Before performing surveying services on private property, prior written authorization shall be provided to the surveyor.
- The properties at 11200 SW 70 Ave and 11205 SW 71 Ave have no apparent easement to access the canal.

Thank you again for the opportunity to work with you on this important project.

Sincerely,

Pete Diaz, PSM
Survey Group Lead
pdiaz@ardurra.com

O: 305.392.9979
M: 305.608.9722
8700 W Flagler St., Suite 180
Miami, FL 33174

Village of Pinecrest - Basin U35-S - Project Area Map

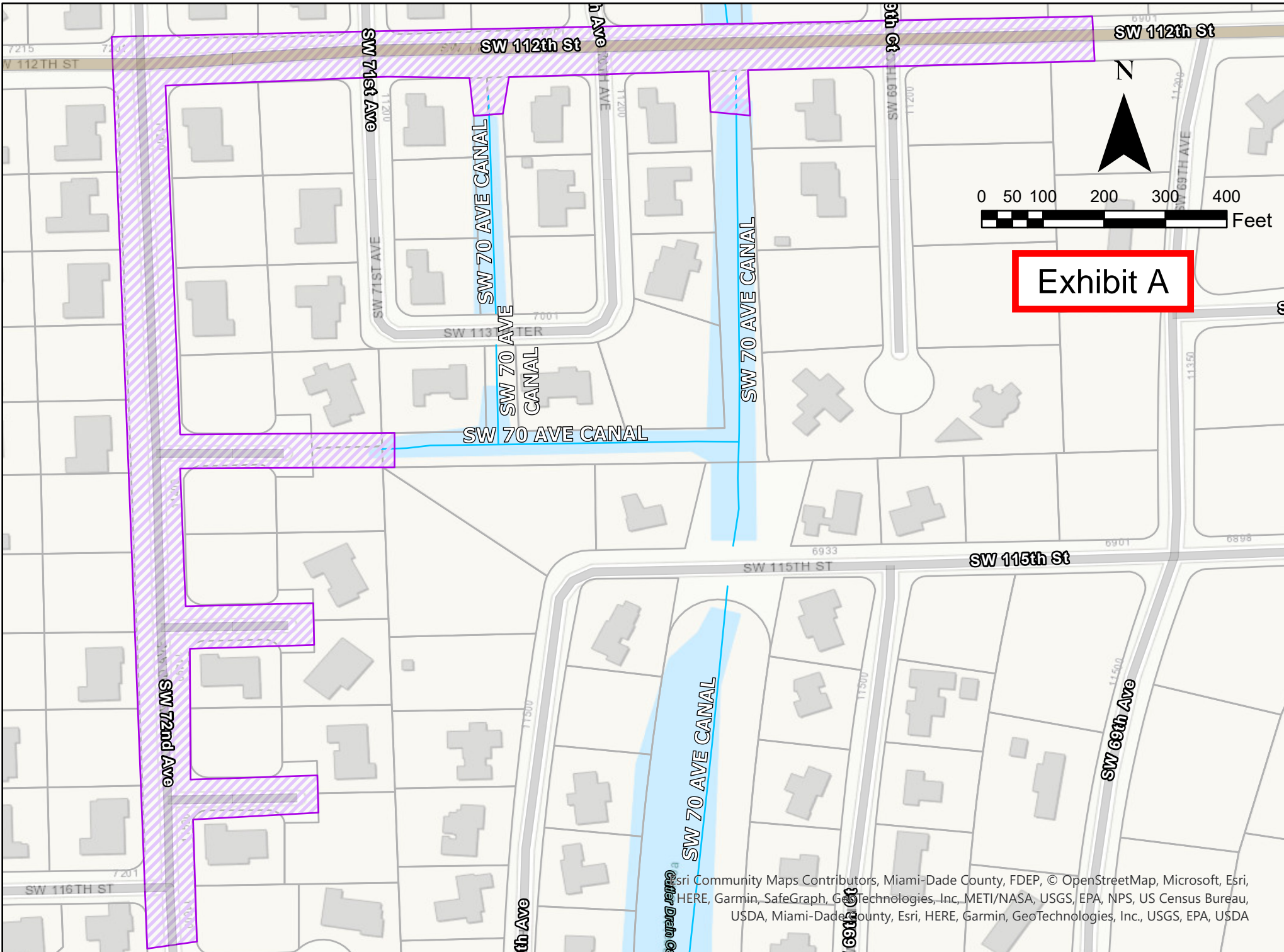


Exhibit A

Esri Community Maps Contributors, Miami-Dade County, FDEP, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Miami-Dade County, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA, USDA



APPENDIX C

Geotechnical Investigation

Proposed Scope & Fee Schedule



16200 NW 59th Avenue, Suite 106
Miami Lakes, FL 33014
P 305-820-1997
F 305-820-1998
Terracon.com

September 9, 2022

300 Engineering Group, P.A.
2222 Ponce de Leon Blvd., Suite 300
Coral Gables, Florida 33134

Attn: Ms. Paola Davalos, P.E., ENV SP
P: (786) 873-5200
E: padavalos@300engineering.com

RE: Proposal for Geotechnical Services
Village of Pinecrest/Basin U35-S
Along SW 112th Street and SW 72nd Avenue
Village of Pinecrest, FL
Terracon Proposal No. PH8225098

Dear Ms. Davalos:

Terracon Consultants, Inc. (Terracon) appreciates the opportunity to submit this proposal to 300 Engineering Group, P.A. (300 Engineering) to conduct a Geotechnical Services for the above referenced project site. The following are exhibits to the attached Agreement of Services.

Exhibit A	Project Understanding
Exhibit B	Scope of Services
Exhibit C	Compensation and Project Schedule
Exhibit D	Site Location
Exhibit E	Anticipated Exploration Plan
Exhibit F	Fee Breakdown

Our lump sum fee to perform the Scope of Services described in this proposal is \$12,858.64. Please see Exhibit C for more details of our fees and consideration of additional services.

Your authorization for Terracon to proceed in accordance with this proposal can be issued by providing a Task order to the continuing services contract between 300 Engineering and Terracon.

Sincerely,
Terracon Consultants, Inc.

Rutu H. Nulkar, P.E.
Senior Engineer

Hugo E. Soto, P.E.
Principal Engineer



EXHIBIT A - PROJECT UNDERSTANDING

Our Scope of Services is based on our understanding of the project as described by 300 Engineering and the expected subsurface conditions as described below. We have not visited the project site to confirm the information provided. Aspects of the project, undefined or assumed, are highlighted as shown below. We request the design team verify all information prior to our initiation of field exploration activities.

Site Location and Anticipated Conditions

Item	Description
Parcel Information	The project is located along SW 112th Street and SW 72nd Avenue in Village of Pinecrest, Florida. See Site Location
Current Ground Cover and Existing Improvements	Existing asphalt paved roadway – one way in each direction and green landscape area on both sides of the roadway
Existing Topography	Relatively flat
Site Access	We expect the site, and all exploration locations, are accessible with truck mounted drill rig.

Planned Construction

Item	Description
Project Description	The project consists of drainage improvements along SW 112 th Street and SW 72 nd Avenue in Village of Pinecrest, Florida.



EXHIBIT B – SCOPE OF SERVICES

Field Exploration

The field exploration program is based on Terracon’s knowledge of the existing subsurface conditions near the project area. Our proposed field exploration program consists of the following:

Number of Borings	Planned Boring Depth (feet) ¹	Planned Location
4	20	Proposed Borings
4	15	Percolation Tests at the same locations of the borings

¹. Below ground surface.

Boring Layout and Elevations: We will use handheld GPS equipment to locate borings in the field. Field measurements from existing site features may be utilized. If available, approximate elevations are obtained by interpolation from a site specific, surveyed topographic map.

Subsurface Exploration Procedures: We will advance soil borings with a truck-mounted drill rig using drilling mud and casing. Five samples will be obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. Soil sampling is typically performed using the split-barrel sampling procedures. In the split barrel sampling procedure, a standard 2-inch outer diameter split barrel sampling spoon is driven into the ground by a 140-pound automatic hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18-inch penetration is recorded as the Standard Penetration Test (SPT) resistance value. The SPT resistance values, also referred to as N-values, are indicated on the boring logs at the test depths. The samples will be placed in appropriate containers, taken to our soil laboratory for testing, and classified by a geotechnical engineer. In addition, we will observe and record groundwater levels during drilling and sampling.

Our exploration team will prepare field boring logs as part of standard drilling operations including sampling depths, penetration distances, and other relevant sampling information. Field logs include visual classifications of materials encountered during drilling, and our interpretation of subsurface conditions between samples.

Percolations Tests: Four (4) Percolation Tests will be performed to a depth of 15 feet below existing grade. The tests will be performed in general accordance with test procedures outlined in “Test Methods for Usual Condition, Open Hole Constant Head Exfiltration Tests – South Florida Water Management District, Permit Information Manual – Volume IV”.

Safety

Safety is a critical aspect of all projects and a safety plan will be prepared prior to commencement of on-site activities; an onsite meeting will be held to discuss health and safety needs for this specific project with onsite personnel. Fieldwork is to be performed using OSHA Level D work uniform consisting of hard hats, safety glasses, protective gloves, and steel-toed boots. Increased levels of protection will be utilized while sampling activities are being conducted, in the event that increased petroleum or chemical constituents are encountered in soils or groundwater that present an increased risk for personal exposure.

Exploration efforts require borings (and possibly excavations) into the subsurface, therefore Terracon complies with local regulations to request a utility location service through Sunshine State One Call of Florida (SSOCOF). We consult with the owner/client regarding potential utilities, or other unmarked underground hazards. Based upon the results of this consultation, we consider the need for alternative subsurface exploration methods, as the safety of our field crew is a priority.

Private utilities should be marked by the owner/client prior to commencement of field exploration. Terracon will not be responsible for damage to private utilities not disclosed to us. If the owner/client is unable to accurately locate private utilities, Terracon can assist the owner/client by coordinating or subcontracting with a private utility locating services. The detection of underground utilities is dependent upon the composition and construction of the utility line; some utilities are comprised of non-electrically conductive materials and may not be readily detected. The use of a private utility locate service would not relieve the owner of their responsibilities in identifying private underground utilities.

Site Access: Terracon must be granted access to the site by the property owner. By acceptance of this proposal, without information to the contrary, we will consider this as authorization to access the property for conducting the field exploration in accordance with the Scope of Services.

Laboratory Testing

The project engineer will review field data and assign laboratory tests to understand the engineering properties of various soil and rock strata. Exact types and number of tests cannot be defined until completion of field work. The anticipated laboratory testing may include the following:

- Wash -#200 Sieve per ASTM D1140
- Moisture Content per ASTM D2216
- Organic Content per ASTM D2974

Our laboratory testing program often includes examination of soil samples by an engineer. Based on the material's texture and plasticity, we will describe and classify soil samples in accordance with the Unified Soil Classification System (USCS).

Engineering and Project Delivery

Results of our field and laboratory programs will be evaluated by a professional engineer. The engineer will develop a geotechnical site characterization, perform the engineering calculations necessary to evaluate foundation alternatives, and develop appropriate geotechnical engineering design criteria for earth-related phases of the project.

Your project will be delivered using our [GeoReport®](#) system. Upon initiation, we will provide you and your design team the necessary link and password to access the website (if not previously registered). Each project includes a calendar to track the schedule, an interactive site map, a listing of team members, access to the project documents as they are uploaded to the site, and a collaboration portal. The typical delivery process includes the following:

- Project Planning – Proposal information, schedule and anticipated exploration plan will be posted for review and verification
- Site Characterization – Findings of the site exploration
- Geotechnical Engineering

When utilized, our collaboration portal documents communication, eliminating the need for long email threads. This collaborative effort allows prompt evaluation and discussion of options related to the design and associated benefits and risks of each option. With the ability to inform all parties as the work progresses, decisions and consensus can be reached faster. In some cases, only minimal uploads and collaboration will be required, because options for design and construction are limited or unnecessary. This is typically the case for uncomplicated projects with no anomalies found at the site.

When services are complete, we will upload a printable version of our completed geotechnical engineering report, including the professional engineer's seal and signature, which documents our services. Previous submittals, collaboration and the report are maintained in our system. This will allow future reference and integration into subsequent aspects of our services as the project goes through final design and construction.

The geotechnical engineering report will provide the following:

- Site Location and Exploration Plans
- Boring logs with field and laboratory data
- Stratification based on visual soil (and rock) classification
- Groundwater levels observed during drilling
- Subsurface exploration procedures
- Description of subsurface conditions
- Hydraulic conductivity (k-value)



EXHIBIT C – COMPENSATION AND PROJECT SCHEDULE

Compensation

Based upon our understanding of the site, the project as summarized above, and our planned Scope of Services, our lump sum fee is shown in the following table:

Task	Lump Sum Fee
Subsurface Exploration, Laboratory Testing and Reporting	\$12,858.64

See attached Exhibit F – Fee Breakdown. Unit fees are based on the negotiated fees from Miami Dade County.

Our Scope of Services does not include services associated with site clearing, wet ground conditions, tree or shrub clearing, or repair of/damage to existing landscape. If such services are desired by the owner/client, we should be notified so we can adjust our Scope of Services.

Unless instructed otherwise, we will submit our invoice(s) to the address shown at the beginning of this proposal. If conditions are encountered that require Scope of Services revisions and/or result in higher fees, we will contact you for approval, prior to initiating services. A supplemental proposal stating the modified Scope of Services as well as its effect on our fee will be prepared. We will not proceed without your authorization.

Project Schedule

We developed a schedule to complete the Scope of Services based upon our existing availability and understanding of your project schedule. However, this does not account for delays in field exploration beyond our control, such as weather conditions, permit delays, or lack of permission to access the boring locations. In the event the schedule provided is inconsistent with your needs, please contact us so we may consider alternatives.

GeoReport® Delivery	Posting Date ^{1, 2}
Project Planning	2-3 days
Site Characterization	10 days
Geotechnical Engineering	15 days



GeoReport® Delivery	Posting Date ^{1, 2}
<ol style="list-style-type: none">1. Upon receipt of your notice to proceed we will activate the schedule component of our GeoReport® website with specific, anticipated business days for the three delivery points noted above as well as other pertinent events such as field exploration crews on-site, etc.2. We will maintain a current calendar of activities within our GeoReport® website. In the event of a need to modify the schedule, the schedule will be updated to maintain a current awareness of our plans for delivery.	

SITE LOCATION

Geotech Proposal Request-Village of Pinecrest-Basin U35-S ■ Village of Pinecrest, Florida
September 9, 2022 ■ Terracon Project No. PH8225098

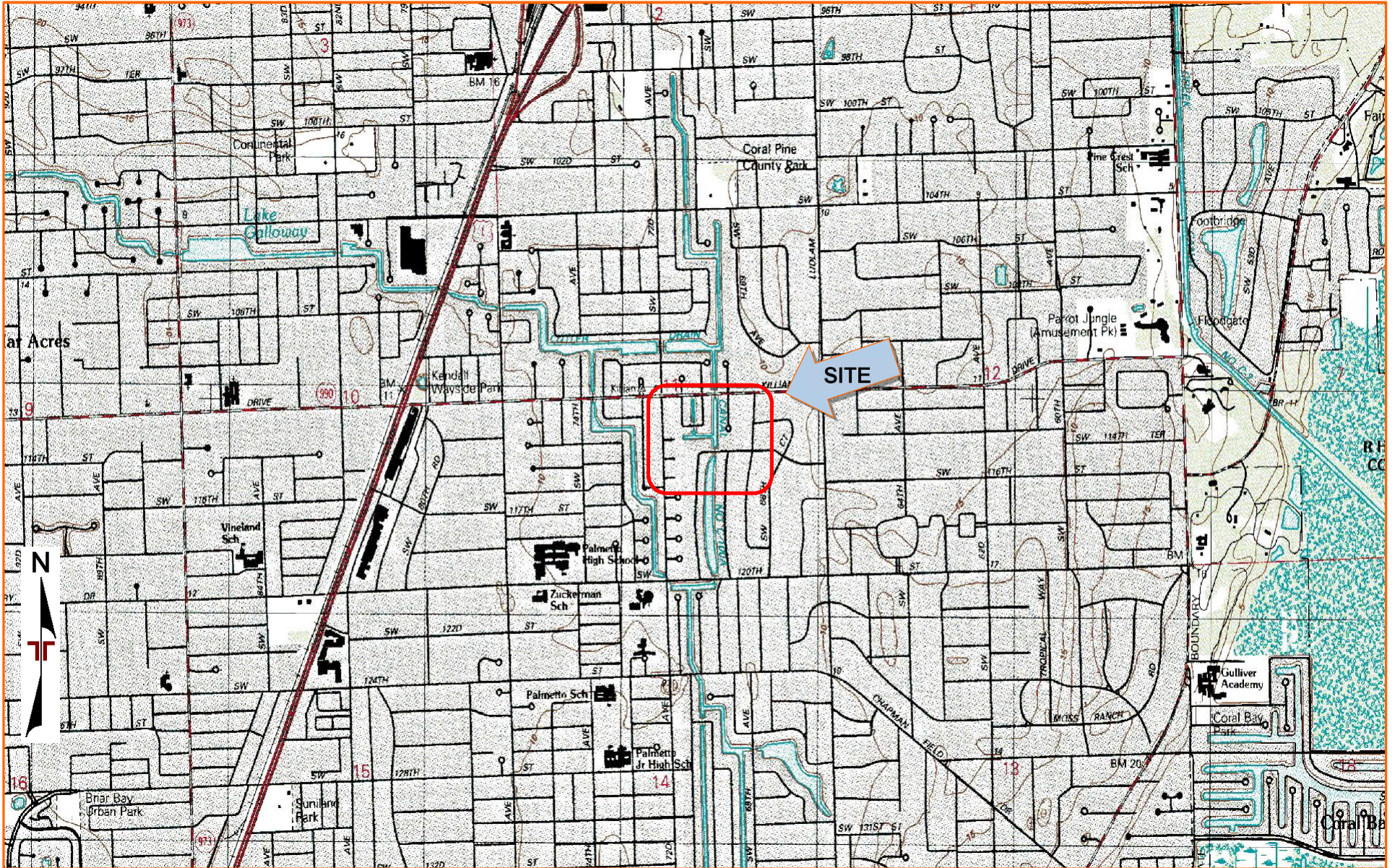


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: SOUTH MIAMI, FL (1/1/1994).

EXPLORATION PLAN

Geotech Proposal Request-Village of Pinecrest-Basin U35-S ■ Village of Pinecrest, Florida
September 9, 2022 ■ Terracon Project No. PH8225098



DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT
INTENDED FOR CONSTRUCTION PURPOSES

AERIAL PHOTOGRAPHY PROVIDED BY
MICROSOFT BING MAPS

EXPLORATION PLAN

Geotech Proposal Request-Village of Pinecrest-Basin U35-S ■ Village of Pinecrest, Florida
September 9, 2022 ■ Terracon Project No. PH8225098

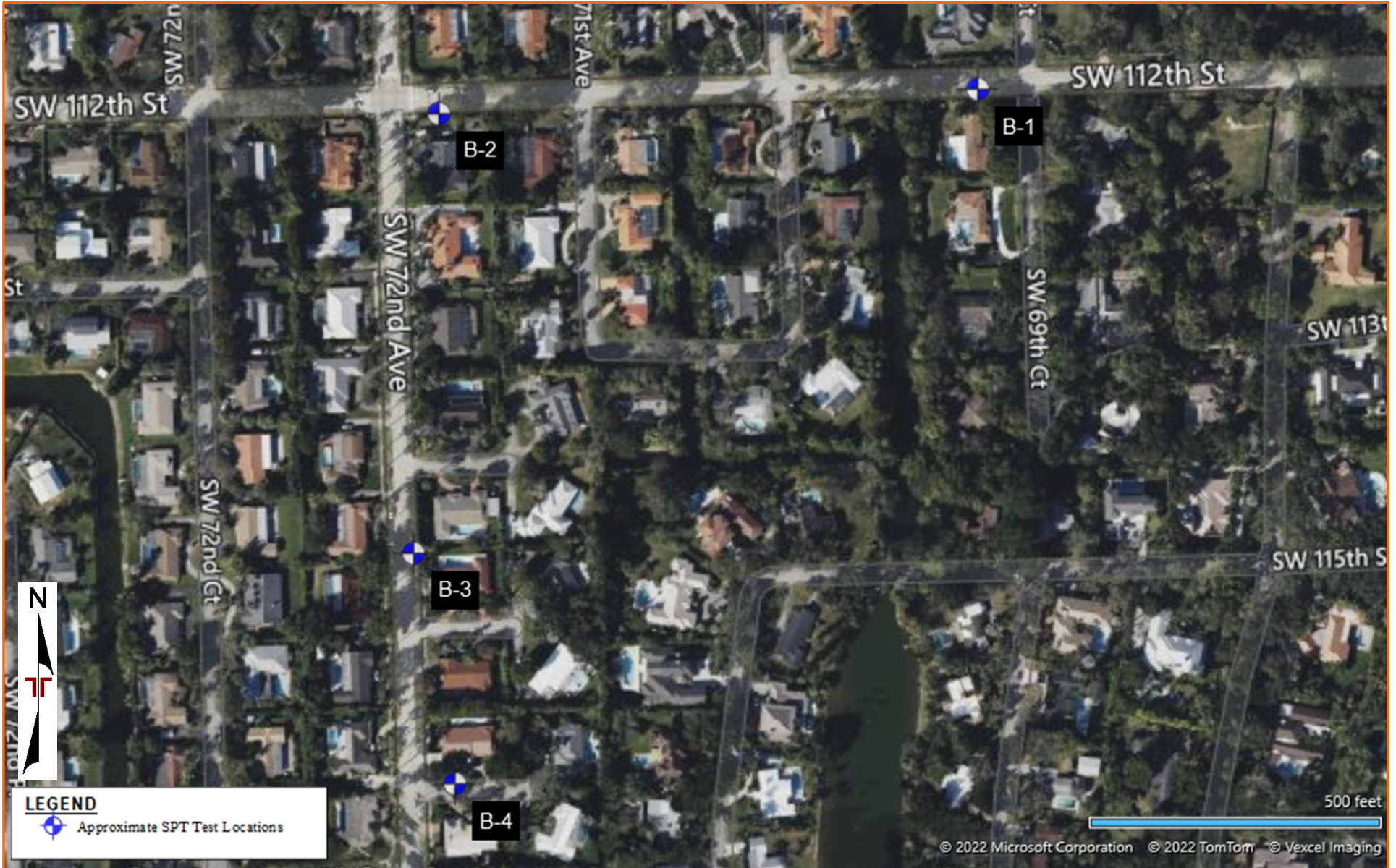


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS



Geotechnical Engineering Services - Fee Estimate

Village of Pinecrest - Basin U35-S
Village of Pinecrest, Florida

Terracon Proposal No. PH8225098
09-Sep-22

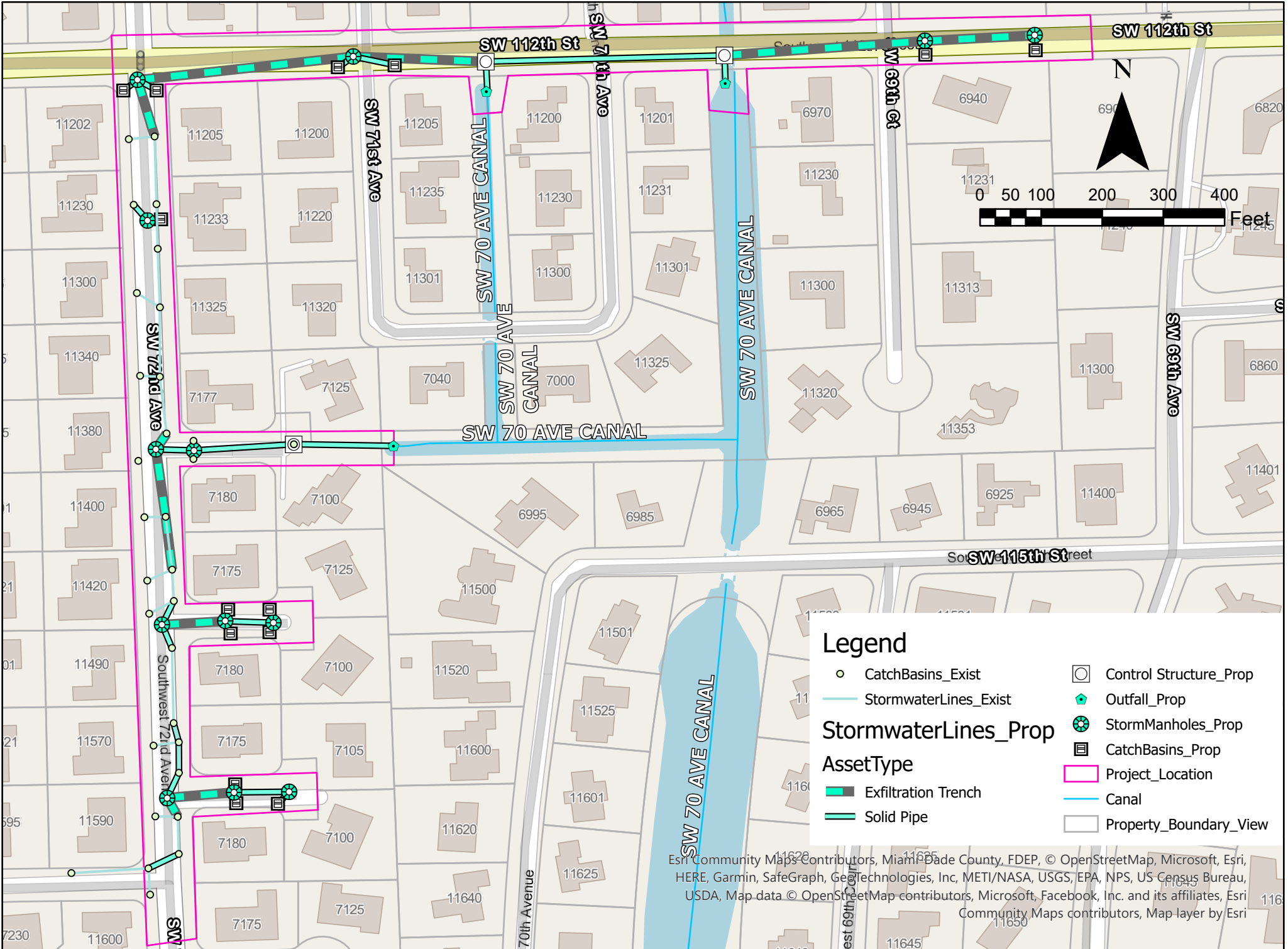
DESCRIPTION OF TASK	UNIT	# OF UNITS	UNIT RATE	TOTAL
1. Boring Layout and Utility Coordination				
23 B. Professional Engineer	Per Hour	6.0	\$ 100.72	\$ 604.32
23 G. Engineering Technician	Per Hour	3.0	\$ 74.95	\$ 224.85
			Subtotal	\$ 829.17
2. Field: 4 SPT Soil Borings to 20 feet bgs and 4 Percolation Tests at 15 feet bgs				
1 A. Mobilization	Each	1.0	\$ 401.27	\$ 401.27
1 B. SPT Soil Borings: 4 SPT Soil Borings to 20 feet bgs, 80 feet total	Per Foot	80.0	\$ 22.93	\$ 1,834.40
J. Closing holes with grout	Per Foot	80.0	\$ 9.17	\$ 733.60
1 I 3. Open Hole Percolaiton Tests: 4 percolation tests at 15 feet bgs	Per Test	4.0	\$ 552.96	\$ 2,211.84
22. MOT	Per Day	2	\$ 1,900.00	\$ 3,800.00
			Subtotal	\$ 8,981.11
3. Laboratory Testing				
K. Soil Classification	Per Test	4.0	\$ 100.06	\$ 400.24
G. Moisture Content	Per Test	4.0	\$ 43.57	\$ 174.28
H. Organic Content	Per Test	4.0	\$ 52.31	\$ 209.24
O. Material finer than -200 sieve	Per Test	4.0	\$ 51.59	\$ 206.36
			Subtotal	\$ 990.12
4. Reporting				
23 C. Professional Engineer: Analysis and Reporting	Per Hour	10.0	\$ 136.82	\$ 1,368.20
23 E. Principal	Per Hour	2.0	\$ 166.56	\$ 333.12
23 A. CADD Operator	Per Hour	3.0	\$ 83.28	\$ 249.84
23 F. Administrative	Per Hour	2.0	\$ 53.54	\$ 107.08
			Subtotal	\$ 2,058.24
LUMP SUM FEE (Tasks 1, 2, and3)				\$ 12,858.64



APPENDIX D

Project Area Map & Conceptual Drainage Layout

Village of Pinecrest - Basin U35-S - Conceptual Drainage Project Area Map



Legend

- CatchBasins_Exist
 - StormwaterLines_Exist
 - Control Structure_Prop
 - ◆ Outfall_Prop
 - StormManholes_Prop
 - CatchBasins_Prop
 - Project_Location
 - Property_Boundary_View
- StormwaterLines_Prop**
- Exfiltration Trench
 - Solid Pipe
 - Canal

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