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April 22, 2025

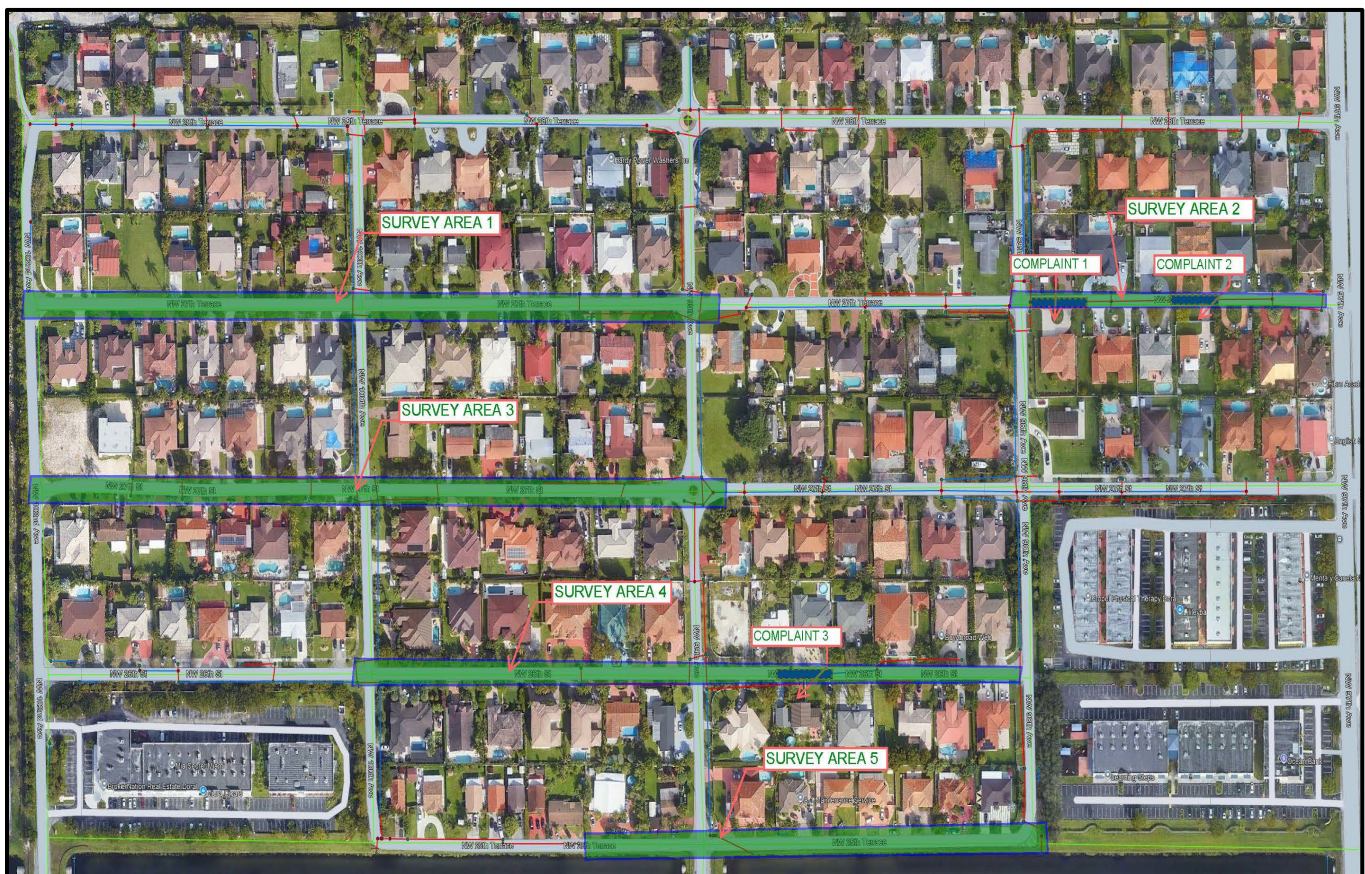
Darlin Perez, PE
Chief of Engineering
City of Doral
8300 Northwest 53rd Street, Suite 200
Doral, Florida 33166

RE:

Dear Ms. Perez:

Per your request, A.D.A. Engineering, Inc. (ADA) is pleased to submit this Service Order proposal for Professional Engineering Services associated with the preparation of a drainage design and permitting to address flooding complaints and drainage improvements on streets without existing drainage systems. This Service Order will be an integral part of the General Engineering/Architectural Services (RFQ 2023-08) agreement between the City of Doral (City) and ADA. This Service Order defines the scope of work, schedule, exclusions, and compensation for the professional engineering services associated with this project.

The project area includes the portions of NW 25 Terrace from just west of NW 99 Avenue to NW 98 Avenue; NW 26 Street from NW 100 Avenue to just west of NW 98 Avenue including one of the complaint locations (survey area 4); NW 27 Street from NW 102 Avenue to just east of NW 99 Avenue (survey area 3); and NW 27 Terrace from NW 102 Avenue to NW 99 Avenue (survey area 1) as well as from NW 98



Avenue to east of the two complaint locations until NW 97 Ave (survey area 2). See figure on previous sheet for project limits in green.

I. Scope of Work

The Scope of Work is comprised of the following essential tasks:

- Task 1 – Data Collection and Evaluation
- Task 2 – Surveying and Mapping
- Task 3 – Subsurface Exploration
- Task 4 – Drainage Design Report
- Task 5 - Construction Documents
- Task 6 - Permitting

Below is a description of the level of effort associated with each of these tasks.

Task 1 – Data Collection and Evaluation

ADA will attend a project kickoff meeting with City staff to introduce the project team, identify goals and objectives for the project, and obtain specific directions from the City. As part of this task, ADA will collect available information from the City and will also perform Utility Coordination for the project locations. A design ticket will be obtained through Sunshine to determine the number of Utility Agents/Owners (UAO) that could impact the proposed improvements. Field visits will be made to assess the project site and verify the topographical survey. Attend coordination meetings with City staff and Pre-application meeting with the Department of Regulatory and Economic Resources (RER).

Task 2 – Surveying and Mapping

ADA will retain Hadonne to obtain survey control information within the project limits to support the study for the proposed drainage improvements. The key elements of the survey information will include:

- Survey control points and cross-sections every 25 feet within the right-of-way and extend outside the right-of-way for 10 feet
- Obtain drainage structure information (location, elevation, inverts, pipe size)
- Locate and identify trees
- All topographic information will be obtained relative to the NAD 83 (2011) Datum for horizontal control and NAVD 1988 for vertical control
- Field data will be collected with Laser Scanning (LIDAR Technology).
- Project length is 5,750 Linear Feet.
- Verification of Vertical and Horizontal (VVH) test holes, if necessary.

The anticipated schedule to complete this task is 6 weeks from Notice to Proceed (NTP) for the Preliminary Survey and an additional 3 weeks for the Final Survey.

Task 3 – Subsurface Exploration

ADA will retain HR Engineering to perform field tests within the project limits. The field tests will include percolation tests and soil borings. These tests will include the following:

- Perform four open hole percolation tests to 15 feet in accordance with the South Florida Water Management District Permit Volume IV
- Perform 8 SPT borings (2 per roadway segment) to 10 feet.
- Perform utility clearance within City's right-of-way
- Prepare a roadway report, including a soil survey, percolation test results, and laboratory testing results.
- Provide Maintenance of Traffic (MOT) for field exploration.

The anticipated schedule is to complete the work in approximately one week.

Task 4 – Drainage Design Report

ADA will use the information collected as part of Tasks 1 through 3 to perform drainage analysis and prepare a Drainage Design Report.

- Prepare an ICPR4 Model to analyze the existing conditions for the 10-year, 1-day storm event.
- Provide additional inlets, pipes, and French drain within the project limits to address the flooding complaints and the areas without existing drainage systems.
- Address Water Quality requirements.
- Provide pavement restoration and preliminary grading to ensure proper flows to drainage structures.
- Provide a Drainage Report discussing the analysis and results. Flood maps of the existing and proposed conditions will be included in the report.

The Draft Report will be submitted to the City for review within six weeks of receiving all the information from Tasks 1-3.

Task 5 – Construction Documents

ADA will prepare construction drawings for the proposed improvements. The drawings will be Plan and Profile drawn at a scale of 1"= 20' (Horizontal) and 1"= 2' (Vertical).

- Preliminary (30%) Plans will be plan view only and will depict the location of the drainage system Final (structures and preliminary grading. Cover Sheet (including Index of Sheets and Location Map), General Notes and Legend Sheet, and Survey Control Sheet will be included in the submittal to the City for review and comments.
- The 60% Plans will be Plan and Profile Sheets and will address comments from the City's 30% Plans review. In addition to the sheets from the 30% submittal, Summary of Quantities Sheet, Drainage Structures Sheets, Traffic Control Plans (MOT), Pavement Markings and Signage Plans, if needed, and Stormwater Pollution Prevention Plans (SWPPP) will be provided. Exact location of VVHs (soft digs), if any, will be provided. A Preliminary Cost Estimate will be prepared for this submission.
- The 90% Plans submittal will include the addition of the Soil Survey Sheet, a Signature Sheet, Final Cost Estimate, and addressing all City comments on the 60% review. Specifications will be provided on the plans.
- Final (100%) Plans will be submitted after addressing any comments from the permitting agencies.

ADA will submit signed and sealed Final 100% Plans to the City for Bidding Process. This task is expected to take approximately 24 weeks, including about four weeks for reviews by the City.

Task 6 – Permitting

The 90% Plans will be submitted to the County's Department of Regulatory and Economic Resources (RER), Division of Environmental Resources Management (DERM) to obtain an Environmental Resources Permit (ERP) and to the City for review and approval.

- Respond to Requests for information and address review comments from DERM.
- Respond to comments from the City review.
- Update plans to incorporate all agreed on comments and prepare 100% Plans for Bidding Process.

The permitting task is anticipated to take approximately 26 weeks (6 months).

II. SCHEDULE

We are prepared to initiate our work immediately after receiving your written authorization of this proposal. ADA will complete Tasks 1 through 3 within 9 weeks from NTP. Task 4 will be completed within 24 weeks from NTP. We are anticipating that the review time by the City will be completed within 2 weeks from receipt of the submittal from ADA. The submittals will be for 30%, 60%, 90% and 100% milestones. The time to obtain approvals will depend on the review process from the permitting agencies. We anticipate the permitting process will take approximately 18 weeks.

III. EXCLUSIONS

The services outlined below are not included as part of the scope of work, although additional services can be provided once written authorization is issued by the City:

- Provide meeting minutes.
- Perform hydrologic/hydraulic modeling, except within the project area as part of drainage calculations.
- Revise City's regional stormwater hydrologic/hydraulic models.
- Prepare bid documents and specifications packages.
- Perform video inspection of existing drainage system.
- Attend council meetings.
- Prepare as-built plans.
- Post Design Services

IV. COMPENSATION

ADA will be compensated for the services described in this scope of work on a time and material basis. The estimated fee for the consulting services of **\$220,795.94** was calculated in accordance with the General Engineering/Architectural Services (RFQ 2023-08) agreement between the City and ADA. The attached fee estimate spreadsheet shows the costs associated with each of the tasks outlined in the scope of work and applicable sub-consultant fees. The shown fee is a budget since the fee will be invoiced based on time spent and any incurred and approved expenses.

Task	Fee	Schedule
Task 1 – Data Collection and Evaluation	\$18,085.40	NTP + 45 Days
Task 2 – Surveying and Mapping	\$49,521.08	NTP + 54 Days
Task 3 – Subsurface Exploration	\$10,883.00	NTP + 7 Days
Task 4 – Drainage Design Analysis	\$62,954.14	NTP + 42 Days
Task 5 – Construction Documents	\$67,840.96	NTP + 264 Days
Task 6 – Permitting	\$11,511.36	NTP + 446 Days
TOTAL FEE	\$220,795.94	

We look forward to working with the City on this important project assignment. If you have any questions or need additional information, please contact me.

Cordially,

A.D.A. Engineering, Inc.



Alberto D. Argudin, PE, CGC, LEED AP
President



CITY OF DORAL

GENERAL ENGINEERING DESIGN SERVICES RFQ 2023-08

DESIGN FOR STORMWATER IMPROVEMENTS – VANDERBILT AREA

FEE ESTIMATE

Estimate Date: 4/22/25

WORK ACTIVITY (ADA)	ADA EMPLOYEE CLASSIFICATION						TOTAL HOURS	TOTAL ADA LABOR COST	ESTIMATED EXPENSES ¹	TOTAL FEE
	Principal	Project Manager	Senior Engineer	Project Engineer	CADD Technician	Admin. Assistant				
HOURLY RATE	\$293.76	\$257.80	\$238.40	\$199.85	\$125.15	\$94.13				
Task 1 – Data Collection and Evaluation		12	26	44			82	\$ 18,085.40		\$ 18,085.40
1.1 Attend kick-off meeting		2	2				4	\$ 992.40		\$ 992.40
1.2 Collect and review available data from City and Utility Coordination		4	16	40			60	\$ 12,839.60		\$ 12,839.60
1.3 Perform a field reconnaissance site visit		2	4	4			10	\$ 2,268.60		\$ 2,268.60
1.4 Attend coordination meetings with City (4 meetings, 1 hr each)		4	4				8	\$ 1,984.80		\$ 1,984.80
Task 4 – Drainage Design Analysis	16	16	44	172	62	16	326	\$ 62,954.14		\$ 62,954.14
4.1 Prepare ICPR4 Model for existing conditions	4	4	12	60	20		100	\$ 19,561.04		\$ 19,561.04
4.2 Prepare ICPR4 Model for proposed conditions	4	4	8	40	18		74	\$ 14,360.14		\$ 14,360.14
4.3 Address Water Quality requirements	2	2	4	16			24	\$ 5,254.32		\$ 5,254.32
4.4 Provide pavement restoration locations and preliminary grading	2	2	4	16	16		40	\$ 7,256.72		\$ 7,256.72
4.5 Prepare Drainage Design Report	4	4	16	40	8	16	88	\$ 16,521.92		\$ 16,521.92
Task 5 – Construction Documents	6	28	64	128	144		370	\$ 67,840.96		\$ 67,840.96
5.1 Preliminary (30%) Plans	2	4	8	40	40		94	\$ 16,525.92		\$ 16,525.92
5.2 60% Plans	2	8	24	40	40		114	\$ 21,371.52		\$ 21,371.52
5.3 90% Plans	2	8	24	40	40		114	\$ 21,371.52		\$ 21,371.52
5.4 Final (100%) Plans		8	8	8	24		48	\$ 8,572.00		\$ 8,572.00
Task 6 - Permitting	2	8	8	16	24	8	66	\$ 11,511.36		\$ 11,511.36
Permit Application submittal and coordination		4	4	8		4	20	\$ 3,960.12		\$ 3,960.12
Response to RFIs and revision to drawings	2	4	4	8	24	4	46	\$ 7,551.24		\$ 7,551.24
Total Hours	24	64	142	360	230	24				
Total Fee	\$7,050.24	\$16,499.20	\$33,852.80	\$71,946.00	\$28,784.50	\$2,259.12	844	160,391.86		160,391.86

Notes: 1- Expenses assumed at 3% of labor

3%

WORK ACTIVITY (SUB CONSULTANT)	SUB CONSULTANTS SUMMARY OF TOTALS					
	Sub Consultant	Sub Consultant Fee	ADA Sub-consultant Management Fee		Total Fee	Notes
Task 2 – Survey	HAD	\$ 43,521.08			\$ 43,521.08	See attached proposal for survey work
	HAD	\$ 6,000.00			\$ 6,000.00	See attached proposal for VVHs budget, 5 tests at \$1,200 ea
Task 3 – Geotech	HR	\$ 10,883.00			\$ 10,883.00	See attached proposal for geotechnical and testing work
			\$ -		\$ -	
			\$ -		\$ -	
			\$ -		\$ -	
TOTALS		\$ 60,404.08	\$ -		\$ 60,404.08	

TOTAL FEE WORK AUTHORIZATION = **\$220,795.94**

PRICE PROPOSAL FOR GEOTECHNICAL SERVICES - PERFORMING 4 PERCOLATION TESTS, EACH TO A DEPTH OF 15 FEET AND 8 SPT BORINGS TO 10 FEET EACH

VANDELBILT DRAINAGE - CITY OF DORAL

MIAMI-DADE COUNTY, FLORIDA

HRES PROJECT No.: HR25-1918R

APRIL 22, 2025

We propose the following field exploration:

1. *Performing a total of 4 percolation tests, each to a depth of 15 feet at the locations shown on the attached plan. The tests are marked as follows: EXF. T-1, EXF. T-2, EXF. T-3 and EXF. T-4. All roads have two lanes. All locations require lane closures. Lane closures will be provided by HRES. Assuming the work will be done day time from 8 am to 6 pm. The work may take 2 days.*

2. *Performing a total of 8 SPT borings (2 borings per roadway segment), each to a depth of 10 feet for a roadway geotechnical exploration. The roadway borings will be located along segments of roadway where the percolation tests are located. The roadway borings are proposed as follows: NW 27 Terrace, from NW 102 Avenue to NW 100 Avenue, and NW 27 Street, from NW 98 Avenue to NW 97 Avenue; NW 27 Street, from NW 102 Avenue to NW 100 Avenue; and NW 28 Street, from NW 99 Avenue to NW 98 Avenue. All roads have two lanes. All locations require lane closures. Lane closures will be provided by HRES. Assuming the work will be done day time from 8 am to 6 pm. The work may take 2 days.*

Permits are required by the City and all permit fees will be paid for by the City.

Reporting :

-Provide a roadway report, including a soil survey, percolation test results, and laboratory testing, including the corrosivity and soil test results test results.

	UNITS	# OF UNITS	UNIT RATE	TOTAL \$
=====				
1 & 2. FIELD INVESTIGATION				
1. TRAFFIC CONTROL				
700-MOT Arrow Board: 4 days	each	4	20.00	\$80.00
706-MOT Portable Sign=4 daysx8=32	each	32	1.50	\$48.00
708-MOT Channelizing Devices - Cone: 4 days, 25/day=100	each	100	0.75	\$75.00
712-MOT Support Vehicle: 2 days=4 hours/day=8 hours	hour	8	44.00	\$352.00
MOT- One Technician to provide flagging services during drilling: 24 hours	hour	24	\$70.00	\$1,680.00
Sub-Total				\$2,235.00

2. FIELD EXPLORATION: 4 PERCOLATION TESTS TO 15 FEET, 8 SPT BORINGS TO 10 FEET

2.1) 433-Geo Field Permeability 0-15 ft. Open-End Borehole Method	feet	4	\$450.00	\$1,800.00
2.2) 440-Geo Grout Borehole 0-50 ft. Grout Seal Boreholes: 0' to 50' land: 60 feet.	feet	60	\$5.50	\$330.00
2.3) 478-Geo SPT Truck 0-50 ft.: 80 feet.	feet	80	\$17.00	\$1,360.00
2.4) 514-Geo Truck/Mud Bug Mobilization	each	1	\$450.00	\$450.00
Sub-Total				\$3,940.00

TOTAL FOR FIELD INVESTIGATION

\$6,175.00

57%

VANDELBILT DRAINAGE - CITY OF DORAL

MIAMI-DADE COUNTY, FLORIDA

HRES PROJECT No.: HR25-1918R

MARCH 24, 2025

3. LABORATORY TESTING

3.1) 805 - Corrosion Series	test	2	\$134.00	\$268.00
3.2) 812 - Soils Materials Finer than 200 Sieve	test	6	\$50.00	\$300.00
3.3) 819 - Organic Content Test	test	4	\$50.00	\$200.00

TOTAL FOR LABORATORY TESTING

\$768.00

7%

4. ENGINEERING AND TECHNICAL SERVICES

4.1) Geotechnical Engineer	hour	10	\$120.00	\$1,200.00
4.2) Engineer Intern - report preparation	hour	18	\$105.00	\$1,890.00
4.3) Senior Engineering Technician (boring layout, Utilities)	hour	10	\$85.00	\$850.00
4.4) Senior Engineering Technician (permit with City of Doral) - Optional if no permit is required. The city Informed that no permit is required	hour	0	\$0.00	\$0.00
4.5) Permit Fee - Permits are required by the City and all permit fees will be paid for by the City.	each	0	\$0.00	\$0.00

38

TOTAL ENGINEERING SERVICES

\$3,940.00

36%

TOTAL GEOTECHNICAL FEES

\$10,883.00

100%

Hernando R. Ramos

HR ENGINEERING SERVICES, INC.

Hernando R. Ramos, PE - President



PROPOSAL / AGREEMENT

April 17, 2025

SENT VIA: aargudin@adaeng.net

SUBMITTED TO:

Albert Argudin Jr, CGC
A.D.A. Engineering, Inc.
8550 NW 33rd ST, Suite 202
Doral, FL 33122

ABOUT: Surveying Services for the project known as "**Vanderbilt Drainage**" located within the City of Doral, Florida.

Dear Mr. Argudin:

Pursuant to your request regarding a fee estimate for surveying and mapping services for the above referenced project. **HADONNE (HC)** is pleased to submit the following proposal for your consideration:

SCOPE OF SERVICES:

Perform Topographic Survey of the Survey route outlined in the attached Exhibit "A", survey to include the following items:

1. Field Data will be collected with LiDAR Technology.
2. Depict Right of Way information based on the data available in the Miami-Dade Public Records.
3. Survey limits to extend from a minimum of 10 feet beyond the Right of Way to Right of Way into the adjacent parcels.
4. Locate all above ground features, including site lot lines, trees (Height, caliper, species), House number.
5. Collect Rim elevations, invert elevations, bottom of structure and pipe material (if accessible).
6. Take elevation shots (Cross section elevations) at 25-foot intervals.
7. Elevations to be referenced to NAVD88.
8. Coordinates to be referenced to the NAD83(2011)
9. Locate all existing ADA ramps and existing driveway approaches and note their materials.

DELIVERABLES:

Three signed and sealed copies of the resulting Map of Survey together with a PDF Digitally Signed.

TIME OF COMPLETION:

We have estimated Six calendar weeks to submit a preliminary survey and three weeks for the final submittal.

By signing below, I APPROVE AND ACCEPT this letter as a legal contract and read and agree to the payment terms as set forth above.

By: _____
(Authorized Signature)

Title: _____

(Typed or printed name)

Date: _____

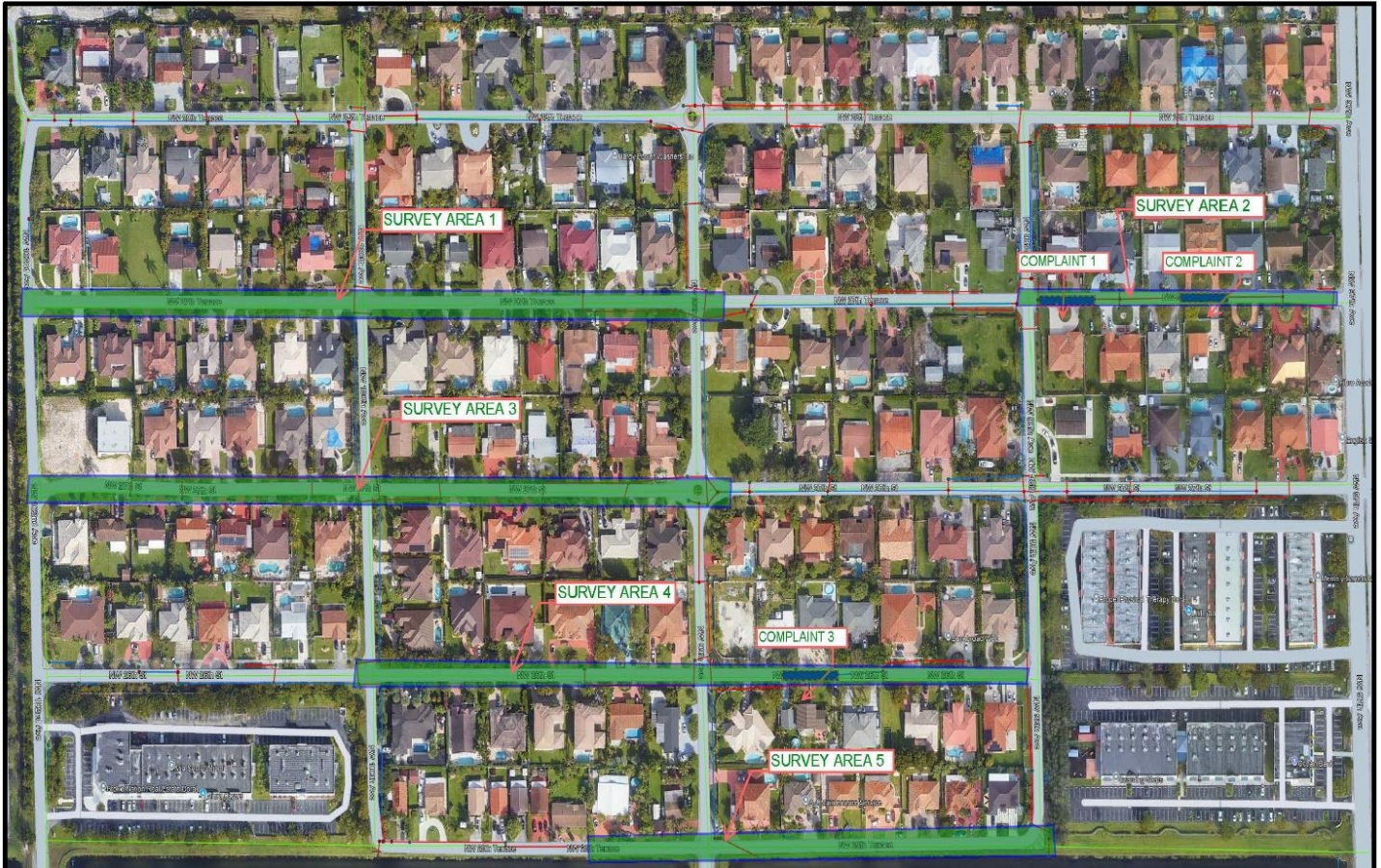
Thank you for this opportunity to present this proposal for your consideration and look forward to your favorable response. In the interim, if there is anything we can do to be of service in this or any other matter, please do not hesitate to call me directly at +1(305) 266-1188.

Respectfully,

Abraham Hadad, PSM/President

EXHIBIT "A" PROJECT AREA, LENGTH, SIZE AND LOCATION

The project area includes the portions of NW 25 Terrace from just west of NW 99 Avenue to NW 98 Avenue; NW 26 Street from NW 102 Avenue to just west of NW 98 Avenue including one of the complaint locations; NW 27 Street from NW 102 Avenue to just east of NW 99 Avenue; and NW 27 Terrace from NW 98 Avenue to east of the two complaint locations. See figure below for project limits in green.



SCHEDULE OF FEES:

Sr. Surveyor/Mapper	10.0 Hours	@	\$202.62	\$2,026.20
Surveyor/Mapper	20.0 Hours	@	\$165.92	\$3,318.40
Survey Technician	72.0 Hours	@	\$116.24	\$8,369.28
CAD Technician	48.0 Hours	@	\$125.15	\$6,007.20
Survey Field Crew	14.0 Days	@	\$1,700.00	\$23,800.00
Verification of Vertical and Horizontal (Test Hole) if needed MOT permit is required. The city will cover all Permit fees.	5 VVH	@	\$1,200.00	\$6,000.00
				<u>\$49,521.08</u>

SURVEY AREA LENGTH:

NW 27 Terrace from NW 102 Ave to NW 99 Ave	1,400.00	Linear Feet
NW 27 Terrace by 97th Avenue	650.00	Linear Feet
NW 27 Street from NW 102 Ave to NW 99 Ave	1,400.00	Linear Feet
NW 26 Street from NW 100 Ave to NW 99 Ave	1,400.00	Linear Feet
NW 25 Terrace from NW 100 Ave to NW 98 Ave	900.00	Linear Feet
Total:	5,750.00	Linear Feet