

### WORK ORDER No. 4 FOR PROFESSIONAL SERVICES

TO: AECOM Technical Services, Inc  
2 Alhambra Plaza, Suite 900  
Coral Gables, FL 33145  
(786) 255-5745

DATE: 02/11/2026

The City of Doral authorizes the firm AECOM Technical Services, Inc. (AECOM) to proceed with the design phase of Roadway and Drainage Improvements at NW 115th Avenue from NW 34th Street to NW 41st Street. Where AECOM. is part of the pre-qualified pool of consultants selected in accordance with RFQ 2023-08 requirements and approved by the City Council on March 13, 2024, via Resolution 24-54. The work should be performed in accordance with the contract provisions contained in the Professional Services Agreement between AECOM. and the City of Doral, dated May 21, 2024, and the attached Proposal submitted on January 20, 2026, 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 AECOM dated 01/20/2026 The schedule requires the scope of work to be completed within 61 weeks of NTP. All time limitations set forth in this Work Order are of the essence. The performance of services associated with this Work Order will be executed on a time and material basis, not to exceed the amount of \$ \$211,991.05

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

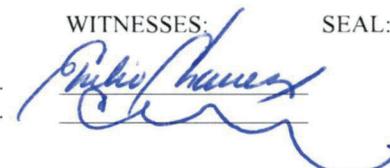
This Work Order incorporates the terms and conditions set forth in the Professional Services Agreement dated May 21, 2024, between the parties as though fully set forth herein. In the event that any terms or conditions of this Work Order conflict with the Continuing Services Agreement, the provisions of this specific Work Order shall prevail and apply. This 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 two (2) counterparts, each of which shall, without proof or accounting for the other counterpart be deemed an original Contract.

CONSULTANT: AECOM Technical Services, INC.

WITNESSES: SEAL:

BY:   
NAME: Julio Bouccla, PE  
TITLE: Vice President / Authorized Signatory

1.   
2. 

OWNER: CITY OF DORAL

AUTHENTICATION:

BY:   
NAME: Zeida Sardinas  
TITLE: City Manager

BY:   
NAME: Connie Diaz  
TITLE: City Clerk



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

BY:   
NAME: Lorenzo Cobiella  
Gastesi, Lopez and Mestre and Cobiella, PLLC  
TITLE: City Attorney

**RESOLUTION No. 26-30**

**A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, AUTHORIZING THE CITY MANAGER TO EXECUTE A WORK ORDER WITH AECOM TECHNICAL SERVICES, INC. FOR PROFESSIONAL ENGINEERING SERVICES RELATED TO THE DESIGN AND PERMITTING OF ROADWAY AND DRAINAGE IMPROVEMENTS NW 115 AVENUE FROM NW 34 STREET TO NW 41 STREET, IN AN AMOUNT NOT TO EXCEED TWO HUNDRED ELEVEN THOUSAND, NINE HUNDRED NINETY-ONE DOLLARS AND 5/100 (\$211,991.05); AUTHORIZING THE CITY MANAGER TO EXECUTE THE WORK ORDER AND EXPEND BUDGETED FUNDS ON BEHALF OF THE CITY; PROVIDING FOR IMPLEMENTATION; PROVIDING FOR INCORPORATION OF RECITALS; AND PROVIDING AND PROVIDING FOR AN EFFECTIVE DATE**

**WHEREAS**, the City of Doral (the “City”) Public Works Department (“PWD”) needs to secure a firm to provide the services identified for the project entitled “Roadway and Drainage Improvements NW 115<sup>th</sup> Avenue from NW 34<sup>th</sup> Street to NW 41<sup>st</sup> Street; and

**WHEREAS**, AECOM Technical Services, Inc. (AECOM) is a pre-qualified provider of professional engineering services selected by Consultant Competitive Negotiation Act (CCNA) requirements and approved by the City Council on March 3, 2024, via Resolution 24-54; and

**WHEREAS**, in September of 2025, the PWD requested a proposal from AECOM to provide professional services for the design and permitting phase of entitled “Roadway and Drainage Improvements” of NW 115<sup>th</sup> Avenue from NW 34<sup>th</sup> Street to NW 41<sup>st</sup> Street; and

**WHEREAS**, this project covers the design and permitting phase at NW 115<sup>th</sup> Avenue from NW 34<sup>th</sup> Street to NW 41<sup>st</sup> Street; and

**WHEREAS**, work will include drainage improvement activities, specifically: expansion of the existing French drains, restoration of the pavement structure, asphalt placement in those areas, signage and pavement markings; and

**WHEREAS**, the contract between AECOM and the City of Doral was procured through the publicly advertised Invitation to Bid (ITB) 2023-08 process to select a pool of pre-qualified Engineering and Architecture firms; and

**WHEREAS**, this group of eleven (11) firms was approved by the Mayor and City Councilmembers during the March 2024 Council meeting via Resolution No. 24-54; and

**WHEREAS**, the PWD respectfully requests authorization from the Mayor and the City Councilmember to authorize the City Manager to execute Work Order No. 4 enclosed as part of "Exhibit A" for design and permitting phase to Roadway and Drainage Improvements NW 115<sup>th</sup> Avenue from NW 34<sup>th</sup> Street to NW 41<sup>st</sup> Street, in an amount not to exceed Two Hundred Eleven Thousand, Nine Hundred Ninety One Dollars and 05/100 (\$211,991.05); and

**WHEREAS**, funding for this request is available in the Public Stormwater Fund – Construction in Progress, Account No. 401.80005.500650.

**NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL 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 No. 4 between the City of Doral and AECOM Technical Services, Inc. to provide the design and permitting phase “ Roadway and Drainage Improvements” NW 115th Avenue from NW 31st Street to NW 41st Street in an amount not to exceed \$211,991.05; a copy of which is attached hereto as Exhibit “A”, together with such non-material changes as may be acceptable to the City Manager and approved as to form and legality by the City Attorney, is hereby approved.

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

**Section 4. Implementation.** The City Manager and City Attorney are authorized to take any additional actions necessary to implement this Resolution, including making any modifications, executing any documents and addendums as necessary to effectuate this Resolution, provided that such actions remain consistent with the Council’s intent.

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

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

Mayor Christi Fraga	Yes
Vice Mayor Digna Cabral	Yes
Councilman Rafael Pineyro	Yes
Councilwoman Maureen Porras	Yes
Councilwoman Nicole Reinoso	Yes

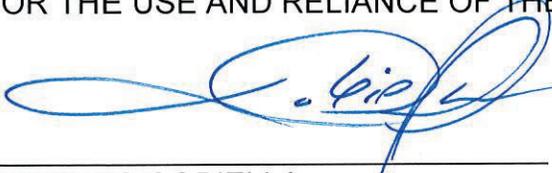
PASSED AND ADOPTED this 18 day of February, 2026.

  
\_\_\_\_\_  
CHRISTI FRAGA, MAYOR

ATTEST:

  
\_\_\_\_\_  
CONNIE DIAZ, MMC  
CITY CLERK

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

  
\_\_\_\_\_  
LORENZO COBIELLA  
GASTESI, LOPEZ, MESTRE & COBIELLA, PLLC  
CITY ATTORNEY

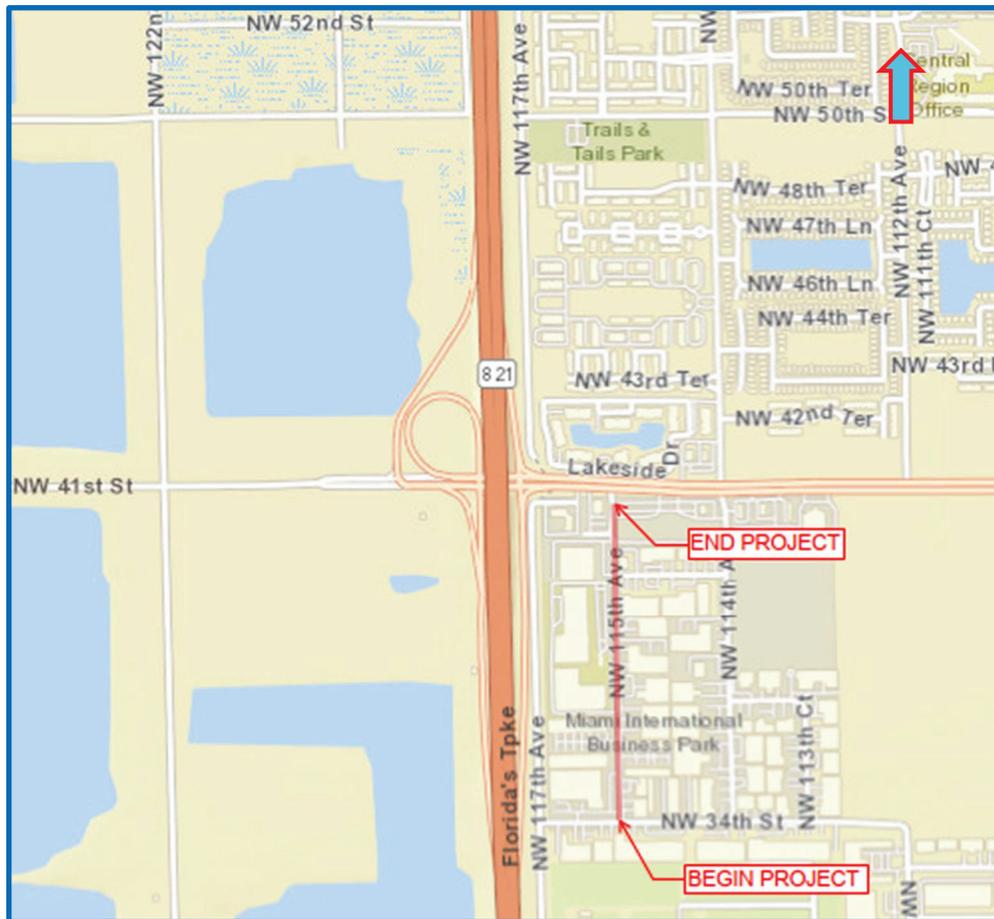
**SCOPE OF CONSULTANT SERVICES  
TASK WORK ORDER (TWO) No. 4  
CONTRACT NUMBER RFQ 2023-08  
January 20, 2026**

**NW 115<sup>th</sup> Avenue Drainage Improvements**

AECOM Technical Services, Inc. (CONSULTANT) will provide the City of Doral (CITY) with the following services:

**GENERAL PROJECT DESCRIPTION**

The scope of the CONSULTANT services for this referenced Contract includes the analysis of the existing drainage system and improvements to alleviate recurring flooding along NW 115<sup>th</sup> Avenue between NW 34<sup>th</sup> Street and NW 41<sup>st</sup> Street (0.445 miles). The project includes expansion of the existing closed French drain system to enhance hydraulic capacity and restoration of the existing pavement at the affected areas. The general objective is to prepare a set of plans in accordance with applicable local, state, and federal standards that convey the intent and scope of the project for the purposes of construction and bidding.



Project Location Map

The design professional services associated with this work order includes roadway, drainage, signing and pavement markings, utilities, permitting, surveying and geotechnical services.

The applicable criteria for this project are based on the FDOT Design Manual, Miami Dade County Standards and the Manual of Traffic Control Devices (MUTCD).

The following specifies the details for each of the Tasks:

**1. Project Management / Meetings** – The Consultant shall perform all necessary project administration activities during the design phase. These activities include managing the project schedule, budget, coordinating with staff, and attending the following meetings including preparing meeting minutes:

- Kick-off meeting
- Preliminary Drainage Report
- 30% Comment Resolution
- 60% Comment Resolution
- 90% Comment Resolution
- Local Government (Miami-Dade County)
- Permit Coordination Meetings
- DERM Permit Meetings

**2. Data Collection Investigation**

**2.1. Survey** – The SUB-CONSULTANT will perform survey tasks in accordance with all applicable statutes, manuals, guidelines, standards, handbooks, procedures, and current design memoranda. The following tasks will be performed:

- Design survey along NW 115<sup>th</sup> Avenue from NW 34<sup>th</sup> Street to NW 41<sup>st</sup> Street including NW 34<sup>th</sup> Street (east and west of NW 115<sup>th</sup> Avenue) extending 15 feet beyond the existing right-of-way with a total length of approximately 2,523 linear feet and a total area of 252,300 square feet
- Topographic and DTM survey with horizontal and vertical control, project datum, and alignments
- Right-of-way limits
- Location of all visible above-ground utilities
- Drainage survey including rim elevations, structure inverts, and pipe data
- Six (6) utility test holes as optional services (if applicable)

**2.1.1 Deliverables**

- Signed and sealed Project Network Control sheet
- Digital Terrain Model (DTM)

**2.2. Geotechnical** – The SUB-CONSULTANT will be responsible for a complete geotechnical investigation including providing gathered data documented in a geotechnical report. The following tasks will be performed:

- Four (4) borehole percolation tests
- Laboratory testing

**2.2.1 Deliverables**

- Signed and sealed Geotechnical Engineering Report

### **3. Plans Production - 30% Submittal**

- Conduct a site visit and field investigation including photo documentation
- Collect, analyze and coordinate utility data
- Establish a master design file for the horizontal / vertical geometry and utilities
- Drainage – Perform hydraulic analysis of the existing closed Frech drain system and ensure proposed drainage improvements comply with Miami-Dade County and CITY flood protection and water quality standards including complying with statewide stormwater nutrient loading rules. Prepare preliminary drainage report (includes pre and post flood maps)
- Roadway – Establish plan sheets for the project
- Utilities – Identify existing utility Agency Owner's (UAOs) in the corridor and prepare a UAO contact information and send letters and plans to each Utility Agency Owner's for markups
- Quality Control and Peer Review of contract documents
- Supervision and coordination of overall submittal

#### **3.1 Deliverables**

- 30% Contract Plans (11x17) shall include:
  - 1) Key Sheet
  - 2) Drainage Map (Preliminary)
  - 3) Typical Section (Preliminary)
  - 4) Project Network Control
  - 5) Roadway Plan (Preliminary)
  - 6) Drainage Sheets (Preliminary)
- Drainage Report (Preliminary)

### **4. Plans Production - 60% Submittal**

- Incorporate comments from previous submittal
- Create list of Roadway, Drainage, and Signing and Pavement Markings pay items and quantities
- Utilities – identify utility facilities, secure and review green line marked plans from the Utility Agency Owners (UAOs) cataloging utility facilities within the proposed project limits and preparing a conflict matrix in collaboration with the EOR
- Environmental Permitting – preliminary project research
- Signing and Pavement Markings – Establish plan sheets for the project
- Drainage – Plan and detail sheets
- Engineer's Cost Estimate
- Quality Control and Peer Review of contract documents
- Supervision and coordination of overall submittal

#### **4.1 Deliverables**

- 60% Contract Plans (11x17) shall include:
  - 1) Key Sheet
  - 2) Signature Sheet
  - 3) General Notes and Legend
  - 4) Summary of Quantities
  - 5) Drainage Map

- 6) Typical Section
  - 7) Project Network Control
  - 8) Roadway Plan
  - 9) Drainage Sheets
  - 10) Signing and Pavement Makings Plan
- Drainage Report
  - Engineer's Cost Estimate

## **5. Plans Production - 90% Submittal**

- Incorporate comments from previous submittal and finalize contract plans
- Update list of Roadway, Drainage, and Signing and Pavement Markings pay items and quantities
- Environmental Permitting – Prepare permit application package for Department of Environmental Resources Management (DERM)
- Engineer's Cost Estimate
- Quality Control and Peer Review of contract documents
- Supervision and coordination of overall submittal

### **5.1 Deliverables**

- 90% Contract Plans (11x17) shall include:
  - 1) Key Sheet
  - 2) Signature Sheet
  - 3) General Notes and Legend
  - 4) Summary of Quantities
  - 5) Drainage Map
  - 6) Typical Section
  - 7) Project Control
  - 8) Roadway Plan
  - 9) Drainage Sheets
  - 10) Signing and Pavement Makings Plan
- Drainage Report (Final)
- Engineer's Cost Estimate (Detailed at Pay Item Level)

### **5.2 Environmental Permitting**

- Incorporate comments from City of Doral 90% review
- Submit contract plans to DERM including responding to 2 requests for additional information (RAI)

## **6. Plans Production – Final Submittal**

- Incorporate comments from previous submittals and finalize contract plans
- Obtain permit from DERM

### **6.1 Deliverables**

- Signed and Sealed Final Contract Plans (11x17) shall include:
  - 1) Key Sheet
  - 2) Signature Sheet
  - 3) General Notes and Legend
  - 4) Summary of Quantities

- 5) Drainage Map
- 6) Typical Section
- 7) Project Control
- 8) Roadway Plan
- 9) Drainage Sheets
- 10) Signing and Pavement Makings Plan
- Signed and Sealed Drainage Report
- Final Engineer’s Cost Estimate
- Approved Permit

**Summary Schedule** – It is anticipated that the tasks identified below can be completed within approximately 61 weeks (15-months design and permitting) from the notice to proceed.

TASKS	Major Activities and Deliverables	DURATION Weeks
1	Kick-off Meeting with City of Doral	1 Day
2	Data Collection	2
2.1	Design Survey	6
2.2	Geotechnical Investigation	4
3	Prepare and Submit Plans Production - 30% submittal	16
	City Reviews Plans Production - 30% submittal	1
4	Prepare and Submit Plans Production - 60% submittal	10
	City Reviews Plans Production - 60% submittal	1
5	Prepare and Submit Plans Production - 90% submittal	8
	City Reviews Plans Production - 90% submittal	1
5.2	DERM Permitting Agency Review 90%	8
6	Prepare and Submit Plans Production - Final Submittal	4
	<b>Total Weeks</b>	<b>61</b>

**Fee Estimate** – The fee for the Design Services will be on a Time and Materials basis. This estimate does not include the permit fees and post-design services.

TASK	DESCRIPTION	FEE AMOUNT	FEE BASIS
1	Project Management/Meetings	\$12,911.70	Time & Materials
2	Data Collection Investigation	See below	See below
3	Plans Production - 30%Submittal	\$60,215.50	Time & Materials
4	Plans Production - 60%Submittal	\$47,513.60	Time & Materials
5	Plans Production - 90%Submittal	\$27,454.30	Time & Materials
6	Plans Production - Final Submittal	\$10,275.20	Time & Materials
	<b>SUBTOTAL ESTIMATED FEE:</b>	<b>\$158,370.30</b>	
	Manuel G Vera & Associates, Inc.(2.1)	\$37,235.70	Time & Materials
	Geosol, Inc.(2.2)	\$10,761.06	Time & Materials
	<b>SUBTOTAL ESTIMATED FEE:</b>	<b>\$206,367.06</b>	
	Manuel G Vera & Associates, Inc.(2.1)(Optional Services)	\$5,623.99	Time & Materials
	<b>Grand Total Estimate Fee</b>	<b>\$211,991.05</b>	

Please see attached documentation pertaining to estimate of work effort and associated fees which include Manuel G Vera & Associates, Inc. and Geosol, Inc. (sub-consultants).

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT														
Name of Project: NW 115th Street Drainage Improvements - TWC#4												Consultant Name: AECOM Technical Services, Inc.		
County: Miami-Dade												Consultant No.: enter consultants proj. number		
FPN: RFQ No. 2023-08												Date: 1/20/2026		
FAP No.: N/A												Estimator: Eric A. Boyer		
		Project Manager	Senior Engineer	Project Engineer	Engineering Technician	Environmental Specialist	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$257.80	\$238.40	\$199.85	\$142.40	\$152.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Task 1	Project Management/Meetings													
	Kick Off Meeting (PM/Roadway EOR, Drainage EOR, Utility Coordinator, Environmental Specialist)			2		2						8	\$1,697	\$212.11
	Preliminary Drainage Report Meeting	2	2									4	\$992	\$248.10
	Comment Resolution Meeting (30%)	2	2									4	\$992	\$248.10
	Comment Resolution Meeting (60%)	2	2									4	\$992	\$248.10
	Comment Resolution Meeting (90%)	2	2									4	\$992	\$248.10
	Local Government (Miami-Dade County)	2	2									4	\$992	\$248.10
	Permit Coordination Meeting (2 meetings)			8		8						16	\$3,126	\$195.40
	DERM Permit Meeting (2 meetings)			8		8						16	\$3,126	\$195.40
Task 3	Plans Production - 30%Submittal													
	Field Review - Photo Documentation		8	8								16	\$3,506	\$219.13
	Horizontal / Vertical Geometry		10	6	18							34	\$6,146	\$180.77
	Roadway Plans (Preliminary)		8	2	12							22	\$4,016	\$182.53
	Drainage Analysis ( Preliminary)		70		40							110	\$22,384	\$203.49
	Drainage Report (Preliminary)		38		14							52	\$11,053	\$212.55
	Utility Coordination			38								38	\$7,594	\$199.85
	QA/QC (3%)		8									8	\$1,907	\$238.40
	Supervision/Coordination (5%)	14										14	\$3,609	\$257.80
Task 4	Plans Production - 60%Submittal													
	Roadway Plans		8	4	42							54	\$8,687	\$160.88
	Drainage Analysis		6		3							9	\$1,858	\$206.40
	Drainage Report		6		3							9	\$1,858	\$206.40
	Drainage Plans		6		24							32	\$5,325	\$166.40
	Signing & Pavement Markings Plans		6	22	30							58	\$10,099	\$174.12
	Utility Coordination			54								54	\$10,792	\$199.85
	Environmental Permitting		6			4						10	\$2,040	\$204.00
	Engineer's Cost Estimate		4		8							12	\$2,093	\$174.40
	QA/QC (3%)		7									7	\$1,669	\$238.40
	Supervision/Coordination (5%)	12										12	\$3,094	\$257.80
Task 5	Plans Production - 90%Submittal													
	Roadway Plans		6	2	24							32	\$5,248	\$163.99
	Drainage Report (Final)		6		12							18	\$3,139	\$174.40
	Drainage Plans		8		24							32	\$5,325	\$166.40
	Signing & Pavement Markings Plans		4	8	18							30	\$5,116	\$170.52
	Environmental Permitting		10			16						26	\$4,822	\$185.48
	Engineer's Cost Estimate		2		4							6	\$1,046	\$174.40
	QA/QC (3%)		4									4	\$954	\$238.40
	Supervision/Coordination (5%)	7										7	\$1,805	\$257.80
Task 6	Plans Production - Final Submittal													
	Roadway Plans		4	2	8							14	\$2,493	\$178.04
	Drainage Plans		5		20							25	\$4,040	\$161.60
	Signing & Pavement Markings Plans		2	2	4							8	\$1,446	\$180.76
	Engineer's Cost Estimate		2		4							6	\$1,046	\$174.40
	QA/QC (3%)		2									2	\$477	\$238.40
	Supervision/Coordination (5%)	3										3	\$773	\$257.80
<b>Total Staff Hours</b>		48	276	150	312	38	0	0	0	0	0	824		
<b>Total Staff Cost</b>		\$12,374.40	\$65,798.40	\$29,977.50	\$44,428.80	\$5,791.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$158,370.30	\$192.20
												Check =	\$158,370.30	
												<b>SALARY RELATED COSTS:</b>	\$158,370.30	
												<b>SUBTOTAL ESTIMATED FEE:</b>	\$158,370.30	
												Subconsultant - Manuel G Vera & Associates, Inc.(Task 2.1)	\$37,035.70	
												Subconsultant - Geosci, Inc. (Task 2.2)	\$10,761.08	
												<b>SUBTOTAL ESTIMATED FEE:</b>	\$266,367.06	
												Manuel G Vera & Associates, Inc.(Optional Services)	\$5,623.99	
												<b>GRAND TOTAL ESTIMATED FEE:</b>	\$271,991.05	

  
 Jeff Blazowski  
 Vice President  
 1/20/2026



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t: 561.203.2704 | f: 305.221.1295  
[www.mgvera.com](http://www.mgvera.com)

January 15, 2026

## Survey and Utility Locating Scope of Service

Erik Augusto Boyer, P.E.  
Project Manager, Transportation  
AECOM  
110 East Broward Boulevard  
Suite 700  
Fort Lauderdale, FL 33301

- Project: NW 115<sup>th</sup> Ave. from NW 34<sup>th</sup> St. to NW 41<sup>st</sup> St.  
Limits: From NW 34<sup>th</sup> St. to NW 41<sup>st</sup> St (See Attached Sketch)
- NW 115<sup>th</sup> Ave from NW 34<sup>th</sup> Street to NW 41<sup>st</sup> Street = 2,323-ft
  - NW 34<sup>th</sup> Street – East and West of NW 115<sup>th</sup> Ave = 200-ft.
  - Total linear feet = 2,523-feet / 0.48-miles.
  - Survey to extend 15' beyond the existing RW- Total Square footage: Approx. 252,300 Sq. Ft. (5.8 acres)

Below is the scope of services for the Design Survey and Subsurface Utility Engineering (SUE) Services for the above referenced project. All scope items are based on Design Survey criteria and are derived from the FDOT Project Activity 27: Survey Staff-Hour spread sheet, attached hereto. In addition to the specific scope items, all work shall be accomplished in accordance with the criteria established by the Departments Highway Field Specifications, Survey Handbook (Survey Procedure Topic No. 550-030-101a) (Chapter 20, sec 23 (3)(a), F.S.), CADD Production Criteria Handbook and must comply with the Standards of Practices for Land Surveyors Rule 5J-17 F.A.C., Florida Statue 472.027.

### Scope of Services

#### **Horizontal Control**

Horizontal Project Network Control (HPNC) will be established on the Florida State Plane Coordinate System, East Zone, and North American Datum (NAD) of 1983 / Latest Adjustment, utilizing GPS/RTK FPRN methods.

#### **Vertical Control**

Vertical Project Network Control (VPNC), will be established on the NAVD 88 vertical datum utilizing GPS/RTK FPRN methods.

#### **Survey Baseline and Right of Way Lines**

The Historic survey baseline and right of ways will be established as per recorded instruments including Right of Way Maps, platted and / or dedicated rights of ways, etc. Survey baselines will be placed in Topo file and the survey database.

### **Topographic Survey / DTM (3D)**

Topographic and DTM Survey will be performed extending 15' beyond the existing r/w where accessible for the project limits. See attached sketch for location/limits.

All above ground features and improvements, break-lines, high and low points will be located with sufficient density of points in order to create a DTM. All topographic features will be located including: existing lighting, pavement markings, trees, pedestrian ramps, driveways, visible above ground utilities, sodded and paved areas, pedestrian ramps, drainage structures, etc. All Topographic / DTM Surveys will follow and meet all applicable standards & guidelines and delivered MicroStation SS10 format.

**Note:** A Topographic Survey Map is **NOT** a part of this scope of services.

### **Drainage Survey**

A Drainage Survey will be performed. The survey will identify the rim elevation, bottom of structure elevation, pipe invert elevation, pipe materials, direction, size and condition.

*Note:*

- *In cases where the structure is full of water and or sediment, MGV will visit said structures a maximum of 2 visits; if structures is still un-accessible, said structure will be reported to the Project Manager and considered complete.*

### **Sectional/Grant Survey & Subdivision Locations**

Survey consisting of field locations of section corners, 1/4-section corners, and fractional corners as well as block closures, monument lines, etc., will be performed in order to establish the right of way lines along all intersecting side-streets.

### **PNC Sheet**

A Project Network Control Sheet will be prepared.

### **Underground Utilities (Locates/Test Holes)**

Provide up to 6 Utility Locates (Test Holes) for utility conflicts as identified by the EOR.

If additional test holes are required, an addendum will be provided to cover the additional test holes.

### **Deliverables**

- 2D Electronic Cad file in MicroStation SS10 format, drawings to follow FDOT CAD format (line styles) depicting each test hole location along with utility elevation, depth of cover, size, type and direction of each found utility.
- Copy of Field Test Hole Data Sheet

MGV will notify Sunshine One-Call 48 hours in advance of performing the utility locates (test holes). A non-destructive vacuum excavation system will be utilized to expose the utilities or perform exploratory test holes. Test holes performed will be of minimum size (usually 1' by 1'). Backfill of test holes will be performed utilizing material removed. Test holes performed in the street will be patched utilizing cold patch. Basic maintenance of traffic (signs, cones) will be included.

### **Subsurface Utility Designating and Locating Conditions and Understandings**

The utility designates and locates are for design purposes only. The Florida One Call must be notified forty-eight (48) hours in advance of any excavation.

Accuracy of Geophysical Mapping techniques, although highly reliable, are subject to outside interference. A few examples are: Soil condition, material conductivity, depth of utility, and various other geological anomalies that may distort or hinder electromagnetic and GPR frequencies.

MGV will make every effort possible utilizing state of the art technology to designate and locate underground utilities; however there are no guarantees that all underground utilities or structures will be detected.

MGV will not access confined spaces and is not included in this fee estimate. If accessing confined spaces are required, MGV will notify the client to discuss options. Additional fees may be applicable.

**Additional Clarifications and Understandings**

If cap rock or an obstruction is encountered during the test hole phase and further vacuum excavation cannot be completed or performed without the potential for utility damage, MGV will consider the test hole completed, measure the depth to the top of the cap rock or obstruction reached, survey the location and consider the test hole completed and invoice accordingly.

The below fee includes only backfill of test holes utilizing material removed in natural ground or cold patch within asphalt pavement or concrete in sidewalks for the approximate 1' x 1' test hole. If additional restoration is required, MG Vera will provide an additional proposal to cover the additional expense.

Basic maintenance of traffic (signs, cones) is included, but if advanced MOT is required, MGV will provide a cost estimate to cover these additional expenses.

This estimate does **NOT** include permit fees.

This estimate does **NOT** include fees for signed and sealed MOT plans.

**Work Zone Safety**

Work zone survey safety will be provided as required by applicable standards.

**Fee and Staff-hour breakdown**

Please refer to Survey Staff-Hour spreadsheet for our staff-hour breakdown and Fee sheet attached here-to.

**Fees:**

**Design Survey:** **\$37,235.70**

**Test Holes (Limiting Amount) – 6 Test Holes:** **\$5,623.99**

(Includes necessary designates for test hole setup, office and survey support)  
(Minimum of 6 per request)

We look forward to providing our services and please contact me if you have any questions or require additional information.

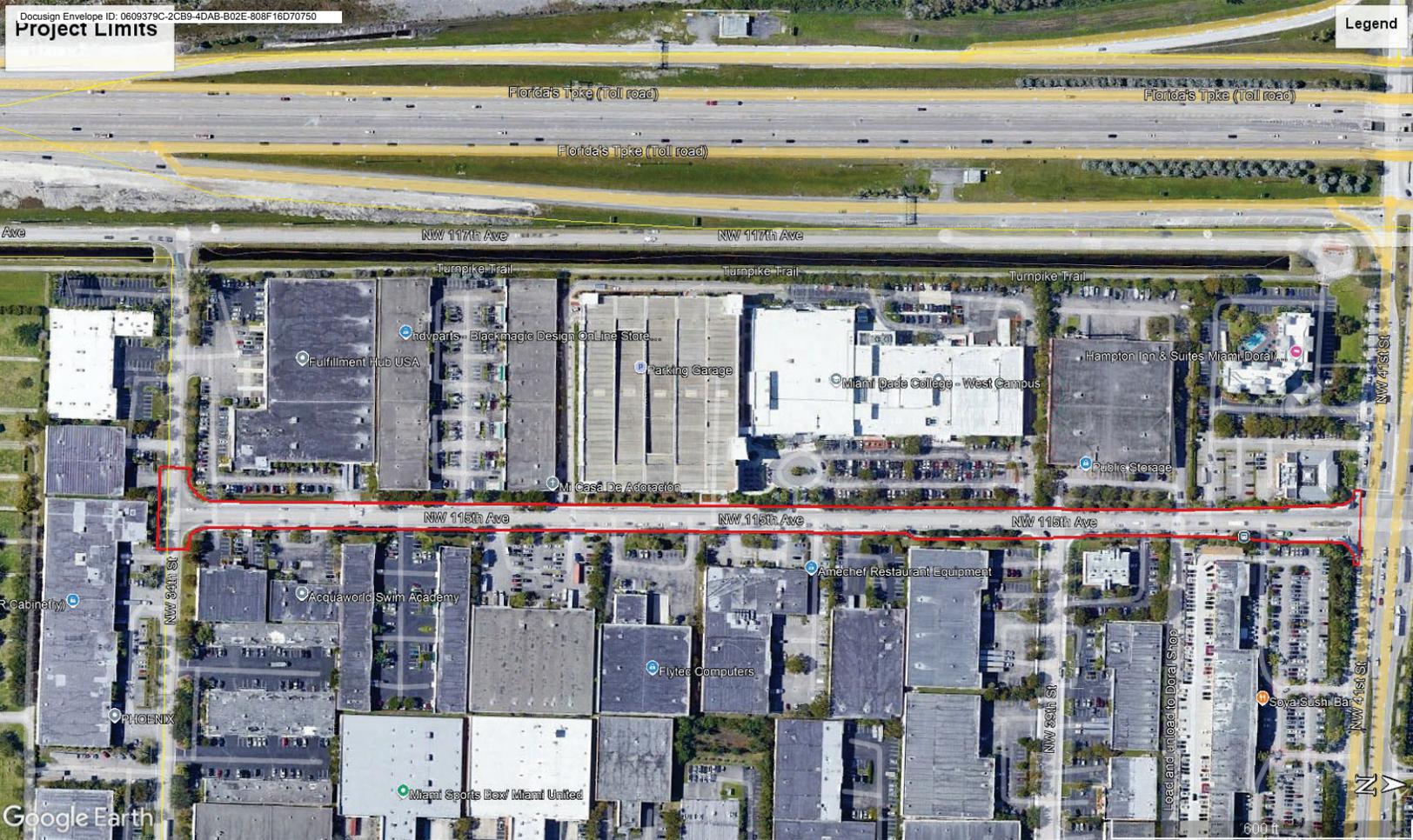
Sincerely,  
Manuel G. Vera & Associates, Inc.



Mark R. Sowers, PSM

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**Project Limits**

**Legend**



ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: City of Doral NW 115th Ave  
 County: Miami-Dade  
 FPN: 0  
 FAP No.: N/A

Consultant Name: Manuel G. Vera & Assoc., Inc.  
 Consultant No.:  
 Date: 10/2/2025  
 Estimator: Mark Sowers

Staff Classification	Total Staff Hours From "SH Summary Form"	Senior Surveyor and Mapper	Surveyor and Mapper	Survey Technician	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH	Salary	Average
		By Activity	Cost By Activity	Rate Per Task												
27. Survey (Field & Office Support)	84	0	42	34	0	0	0	0	0	0	0	0	0	84	\$12,542	\$149.31
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	6	1	3	2	0	0	0	0	0	0	0	0	0	6	\$933	\$155.48
30. Terrestrial Mobile LIDAR	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>	90	9	45	36	0	0	0	0	0	0	0	0	0	90		
<b>Total Staff Cost</b>		\$1,823.58	\$7,466.40	\$4,184.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$13,474.62</b>	<b>\$149.72</b>

Notes:  
 1. This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:			
OVERHEAD:		0%	\$13,474.62
OPERATING MARGIN:		0%	\$0.00
FCCM (Facilities Capital Cost Money):		0.00%	\$0.00
EXPENSES:		0.00%	\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>			<b>\$13,474.62</b>
Survey Crew Party of 2	14	2-man crew @ \$ 1,697.22 / day	\$23,761.08
<b>SUBTOTAL ESTIMATED FEE:</b>			<b>\$37,235.70</b>
			<b>\$0.00</b>
<b>GRAND TOTAL ESTIMATED FEE:</b>			<b>\$37,235.70</b>

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project: City of Doral NW 115th Ave - Utility Locates (Test Holes)  
 County: Miami-Dade  
 FPN: 0  
 FAP No.: N/A

Consultant Name: Manuel G. Vera & Assoc., Inc.  
 Consultant No.:  
 Date: 9/25/2025  
 Estimator: Mark Sowers

Staff Classification	Total Staff Hours From "SH Summary Firm"	Senior Surveyor and Mapper	Surveyor and Mapper	Survey Technician	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH	Salary	Average
														By Activity	Cost By Activity	Rate Per Task
27. Survey (Field & Office Support)	9	1	5	3	0	0	0	0	0	0	0	0	0	9	\$1,381	\$153.44
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!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	9	1	5	3	0	0	0	0	0	0	0	0	0	9		
<b>Total Staff Cost</b>		\$202.62	\$829.60	\$348.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$1,380.94</b>	<b>\$153.44</b>

Notes:  
 1. This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:			\$1,380.94
OVERHEAD:	0%		\$0.00
OPERATING MARGIN:	0%		\$0.00
FCM (Facilities Capital Cost Money):	0.00%		\$0.00
EXPENSES:	0.00%		\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>			<b>\$1,380.94</b>
Survey Crew Party of 2	2.50	2-man crew @	\$ 1,697.22 / day
<b>SUBTOTAL ESTIMATED FEE:</b>			<b>\$5,623.99</b>
			<b>\$0.00</b>
<b>GRAND TOTAL ESTIMATED FEE:</b>			<b>\$5,623.99</b>

AECOM  
110 East Broward Boulevard, Suite 700  
Fort Lauderdale, FL 33301

September 12, 2025  
(Revised September 30, 2025)

Attention: Mr. Erik Augusto Boyer, P.E. - Project Manager, Transportation

Re: **Proposal for Geotechnical Services**  
Roadway and Drainage Improvements  
Along NW 115<sup>th</sup> Avenue from 34<sup>th</sup> Street to NW 41<sup>st</sup> Street  
City of Doral, Florida  
GEOSOL Proposal No. P-225212-R1

Dear Mr. Boyer:

In accordance with your requests on September 11 and 29, 2025, Geosol, Inc. (GEOSOL) is pleased to submit this proposal pertaining to geotechnical services for the above-referenced project. The enclosed proposal includes an estimate of the work effort and our anticipated approach, based on our understanding of the project.

### PROJECT INFORMATION

As we understand it, the City of Doral has noticed, during numerous field reviews, increasing flooding in different parts of the City of Doral. Thus, the City of Doral is planning to provide roadway and drainage improvements along NW 115<sup>th</sup> Avenue from 34<sup>th</sup> Street to NW 41<sup>st</sup> Street to evaluate the existing conditions and to address this flooding. As we understand it, the proposed improvements include milling and resurfacing of the existing pavement, as well as drainage improvements along the project limits with a total length of about 2,400 linear feet. Specifically, geotechnical services will be limited to the performance of borehole percolations testing for use in drainage evaluations and design. As requested, the geotechnical services do not include the performance of an asphalt pavement coring program for use in milling and resurfacing evaluations.

### SCOPE OF SERVICES

#### General

As requested, geotechnical services will be required for the proposed above-referenced improvements. Specifically, as requested, the geotechnical scope of services for this phase of the project will be limited to the performance of borehole percolation tests for use in drainage evaluations and design. The following section provides a discussion regarding the proposed geotechnical investigation program.

#### Field Exploration and Laboratory Testing Programs

1. Perform site reconnaissance, locate and coordinate for existing utilities that may interfere with the drilling operations.



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

Proposal for Geotechnical Services  
Roadway and Drainage Improvements  
Along NW 115<sup>th</sup> Avenue from 34<sup>th</sup> Street to NW 41<sup>st</sup> Street  
City of Doral, Florida  
GEOSOL Proposal No. P-225212-R1

2. Perform four (4) borehole percolation tests for use in drainage evaluations and design at depths of 15 feet. The testing will be performed in accordance with the South Florida Water Management District's Usual Open-Hole testing procedures.
3. Backfill the boreholes using cement grout mix.
4. Visually examine all recovered soil/rock samples and asphalt pavement specimen in the laboratory. A geotechnical engineer will examine all recovered soil and rock samples.

For location of our tests, we will use the aeriels provided to us that show the requested testing locations. We will use the aeriels, existing landmarks and standard taping procedures to locate the testing locations in the field.

### **Geotechnical Engineering Evaluation and Reporting**

Using the results of the field exploration, we will assess the geotechnical engineering impact of the subsurface conditions on the planned construction and provide recommendations for foundation design and related construction. A geotechnical engineering report of our findings and recommendations will be prepared and submitted at the conclusion of the study. The report will be prepared, signed and sealed by a professional engineer registered in the State of Florida. The report will specifically contain the following information:

- A plan of the site showing the location of the test location.
- A brief review of our test procedures and the results of the testing conducted.
- Hydraulic conductivity (k) values of subsurface materials based on results of borehole percolation testing.
- Signed and sealed geotechnical-engineering reports.

### **SCHEDULE**

Our study can begin within one (1) day upon receiving your formal notice to proceed. We will begin by calling SunShine One Call Services to have underground utilities marked and cleared. This task typically takes up to five (5) days. Given the scope described herein, we can complete the field study for the site within two (2) working days. The laboratory testing can be completed within a period of five (5) working days. The geotechnical report can be completed in five (5) working days after completion of the laboratory testing program. Therefore, we can complete the requested services in about a four (4)-week period upon receiving Notice to Proceed.



Proposal for Geotechnical Services  
Roadway and Drainage Improvements  
Along NW 115<sup>th</sup> Avenue from 34<sup>th</sup> Street to NW 41<sup>st</sup> Street  
City of Doral, Florida  
GEOSOL Proposal No. P-225212-R1

**FEES**

Based on our general knowledge and an interpretation of your requirements, we are willing to complete the subsurface exploration and report preparation for the subject site for a total sum of \$10,761.06. The unit rates used for this proposal are those from Miami-Dade County Contract No. E19-DTPW-06 for Soils, Foundations, and Geotechnical Testing Services. We have enclosed a detailed Fee Proposal for your review in Attachment 1.

GEOSOL appreciates your consideration of our firm to undertake this project. If you have any questions, please do not hesitate to contact us.

Sincerely,  
**GEOSOL, INC.**



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



Adnan Ismail, P.E.  
Senior Geotechnical Engineer

Attachment 1 – Fee Proposal



Proposal for Geotechnical Services  
Roadway and Drainage Improvements  
Along NW 115<sup>th</sup> Avenue from 34<sup>th</sup> Street to NW 41<sup>st</sup> Street  
City of Doral, Florida  
GEOSOL Proposal No. P-225212-R1

**ATTACHMENT 1**

**FEE PROPOSAL**



**GEOSOL, INC.**  
**FEE PROPOSAL FOR GEOTECHNICAL SERVICES**  
**Roadway and Drainage Improvements along NW 115th Avenue from 34th Street to NW 41st Street**  
**City of Doral, Florida**

**GEOSOL PROPOSAL No. P-225212-R1**

<u>DESCRIPTION</u>	UNITS	# OF UNITS	UNIT RATE (\$)	TOTAL \$
<b><u>1. FIELD INVESTIGATION</u></b>				
<b><u>1A) FIELD ACTIVITIES</u></b>				
Percolation Tests - Open Hole Method - Testing at 4 locations at 15 feet deep	EACH	4	\$552.96	\$2,211.84
Closing Holes with Grout	FEET	60	\$9.17	\$550.20
Engineering Technician (Boring Layout, Utility Clearance, and Field Meetings)	HOUR	8	\$142.40	\$1,139.20
<b>SUB-TOTAL (for FIELD INVESTIGATION)</b>				\$3,901.24
<b><u>1B) MOBILIZATION/DEMOBILIZATION &amp; MOT COORDINATION</u></b>				
Mobilization of truck mounted rig	EACH	2	\$401.27	\$802.54
Cones, Sign, Flags, Barricades, Arrow Board	DAY	2	\$250.00	\$500.00
Traffic Control - Off Duty Policeman (assume 2 days @ 8 Hrs.)	HOUR	16	\$85.00	\$1,360.00
Traffic Control - Support Vehicle	HOUR	16	\$68.00	\$1,088.00
<b>SUB-TOTAL (MOB/DEMOB, &amp; MOT COORDINATION)</b>				\$3,750.54
<b>TOTAL FIELD INVESTIGATION</b>				\$7,651.78
<b><u>2. LABORATORY PROGRAM</u></b>				
Corrosion Testing including resistivity, chlorides, pH & sulfates per FDOT 5-550 to FM 5-553	EACH	2	\$165.10	\$330.20
<b>TOTAL LABORATORY PROGRAM</b>				\$330.20
<b>TOTAL FIELD AND LABORATORY PROGRAM</b>				\$7,981.98
<b><u>3. ENGINEERING SERVICES</u></b>				
Principal Engineer	HOUR	2	\$293.76	\$587.52
Senior Engineer	HOUR	4	\$238.40	\$953.60
Project Engineer	HOUR	4	\$199.85	\$799.40
CADD Technician	HOUR	2	\$125.15	\$250.30
Clerical	HOUR	2	\$94.13	\$188.26
<b>TOTAL ENGINEERING SERVICES</b>				\$2,779.08
<b>TOTAL GEOTECHNICAL FEES FOR PROJECT</b>				\$10,761.06