

CONSULTANT WORK ORDER PROPOSAL

Date: April 18, 2025

Dear Ms. Perez:

Gannett Fleming, Inc. (Consultant) is pleased to present this proposal to provide additional services for the project entitled “**City of Doral – NW 117th Avenue from NW 25th Street to NW 34th Street**”, pursuant to its Professional Service Agreement with the City of Doral (City), RFQ No. 2023-08.

I. GENERAL

Gannett Fleming, Inc. will perform engineering design services for the City of Doral for the above-referenced project. The scope of services consists of civil engineering services related to the Traffic Signal Analysis for NW 117 Ave and NW 25 St intersection, test holes to locate specific existing underground utilities along NW 117 Ave, lane closure analysis, SPT borings, Tree Permit, DRER Class III Permit, OSP Permit for temporary access to Turnpike ROW.

Task 1 - Geotechnical Services: See Appendix “A”, Sub-consultant Fee proposal for scope of services.

Task 2 – Survey and Right of Way Services: See Appendix “B”, Sub-consultant Fee proposal for scope of services.

Task 3 – Additional Services:

Roadway Plans:

1. Roadway Cross Sections
 - Add an additional cross section along NW 34th Street
 - Include soil borings in cross sections
2. Temporary Traffic Control Plans (1 sheet)
 - Include proposed detour routes

Permitting:

Permits will be required for the proposed roadway improvements from the following agencies:

1. DRER Permit
2. RER Tree Permit
3. OSP Permit - for temporary access to Turnpike ROW

All permit fees, plan review fees and impact fees will be paid directly by the City.

Signing and Pavement Marking:

1. Signing and Pavement Markings Analysis
 - Analyze stop bar relocation 4-ft from crosswalk on NW 34th Street.
 - Include necessary pavement marking modifications.
 - Include new signage to regulate turn movements.
 - Update Quantities and Cost Estimate accordingly.

2. Signing and Marking Plans
 - Update plan sheet to reflect stop bar relocation and new signage.
 - Update tabulation of quantities sheet.

Traffic Analysis:

Traffic Study Analysis for the intersection of NW 117th Avenue and NW 25th Street.

1. Field observations: Field observations will be conducted for 1 hour during the AM peak period, and 1 hour during PM peak period.
2. Traffic Data Collection: 8-hour turning movement counts will be collected at the study intersection during a typical weekday period. The data will be summarized in graphics and tables.
3. Right turn analysis: The need for an exclusive right turn lane will be determined based on existing traffic data, and field observations.
4. Operational analysis: An operational analysis will be conducted, if needed, using Synchro to determine the impacts of the proposed improvements for the AM and PM peak period.
5. Technical memo: findings and recommendations will be summarized in a short memo and submitted to the city and the County for approval.

Signalization:

1. Signalization Analysis
 - Evaluate stop bar relocation (4 ft from crosswalk on NW 34th Street) and integration of new pedestrian signals.
 - Update controller signal timing table for all-red clearance and to include pedestrian signals.
 - Modify NW 34th Street intersection layout to include pedestrian signals and relocate loops as needed.
 - Update Quantities and Cost Estimate.
2. Signalization Plans
 - Update plan sheet to show pedestrian signal installations.
 - Update tabulation of quantities sheet.

Lighting:

1. Lighting Analysis
 - Verify calculations based on vertical illumination requirements.
 - Update report to include vertical illumination evaluation.
 - Update Quantities and Cost Estimate.
2. Lighting Plans
 - Update tabulation of quantities sheet.
 - Update Pole Data, Legend and Criteria sheet
 - Update plan sheet.

II. COMPENSATION

Consultant shall perform the Work detailed in this Proposal for a Time and Material, Not to Exceed fee of One Hundred and Four Thousand Four Hundred Forty Seven dollars and Ninety Five cents (\$104,447.95). The City shall not be liable for any fee, cost, expense or reimbursable expense or other compensation beyond this amount.

SUMMARY OF COMPENSATION TASKS 1 and 2*			
Task, Sub-task, or Activity ID #	Major Task Name and/or Activity Description	Fee Amount	Fee Basis
1.1	Geotechnical Services	\$18,401.00	Time and Material, Not to Exceed
1.2	Survey Services	\$14,791.10	Time and Material, Not to Exceed
1.3	Additional Services	\$71,255.85	Time and Material, Not to Exceed
	<i>Subtotal – Professional Fees</i>	\$104,447.95	Time and Material, Not to Exceed
	<i>Allowance for Additional Services</i>		
	<i>Allowance for Reimbursable Expenses</i>	\$0.00	Direct Expense
	TOTAL	\$104,447.95	Time and Material, Not to Exceed

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

III. ADDITIONAL SERVICES

The City may establish an allowance for additional services requested by the City and for unforeseen circumstances, which shall be utilized at the sole discretion of the City.

IV. PROJECT MANAGER

CONSULTANT'S Project Manager for this Work Order assignment will be Carmen Bermudez, P.E.



Submitted by:

Alina Fernandez, P.E. - Senior Project Manager
Gannett Fleming, Inc.

Reviewed and approved by:

Darlin Perez., P.E. - Chief of Engineer
City of Doral

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project:

NW 117th Ave from NW 25th St to NW 34th St

Gannett Fleming

4/18/2025

Alina Fernandez, P.E.

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Senior Engineer	Project Engineer	Engineer Technician	Staff Classification 8	Staff Classification 9	SH	Salary	Average
		\$257.80	\$238.40	\$199.85	\$142.40	\$0.00	\$0.00	By Activity	Cost By Activity	Rate Per Task
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	71	7	18	21	25	0	0	71	\$13,853	\$195.11
5. Roadway Plans	46	5	12	14	15	0	0	46	\$9,084	\$197.47
6. Drainage Analysis	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	67	7	17	20	23	0	0	67	\$13,130	\$195.96
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	14	1	4	4	5	0	0	14	\$2,723	\$194.49
20. Signing & Pavement Marking Plans	6	1	2	2	2	0	0	7	\$1,419	\$202.73
21. Traffic Analysis	111	5	33	42	31	0	0	111	\$21,964	\$197.88
22. Signalization Plans	6	1	2	2	2	0	0	7	\$1,419	\$202.73
23. Lighting Analysis	23	2	6	7	8	0	0	23	\$4,484	\$194.96
24. Lighting Plans	15	2	4	5	5	0	0	16	\$3,180	\$198.78
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	359	31	98	117	116	0	0	362		
Total Staff Cost		\$7,991.80	\$23,363.20	\$23,382.45	\$16,518.40	\$0.00	\$0.00		\$71,255.85	\$196.84

Check = \$71,255.85

SUBTOTAL ESTIMATED FEE: **\$71,255.85**
 Geotechnical Services - Geosol **\$18,401.00**
 Survey Services - M.G. Vera and Assoc., Inc **\$14,791.10**

SUBTOTAL ESTIMATED FEE: **\$104,447.95**
 Additional Services (Allowance) **\$0.00**
 Reimbursables (Allowance) **\$0.00**
GRAND TOTAL ESTIMATED FEE: **\$104,447.95**

Darlin Perez, P.E.

City of Doral Chief Engineer



Alina Fernandez, P.E.

Gannett Fleming Project Manager

Date

04/18/2025

Date

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.2	Typical Section Package	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5.1	Horizontal /Vertical Master Design Files	LS	1	0	0	
4.5.2	Horizontal /Vertical Master Design Files (skeletal plans)	LS	1	0	0	
4.6	Access Management	LS	1	0	0	
4.7	Cross Section Design Files	LS	1	0	0	
4.8	Traffic Control Analysis	LS	2	8	16	All effort required for establishing the Lane Closure Analysis. Includes NW 117th Ave and NW 34th detours and bike detour.
4.9	Master TCP Design Files	LS	1	0	0	
4.10	Design Variations and Exceptions	LS	1	0	0	
4.11	Design Report	LS	1	0	0	
4.12	Quantities	LS	1	0	0	
4.13	Cost Estimate	LS	1	0	0	
4.14	Technical Special Provisions	LS	1	0	0	
4.15	Other Roadway Analysis	LS	1	40	40	Turnpike ROW- OSP Permit.
Roadway Analysis Technical Subtotal					56	

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.16	Field Reviews	LS	0	0	0	
4.17	Technical Meetings	LS	1	8	8	
4.18	Quality Assurance/Quality Control	LS	%	5%	3	
4.19	Independent Peer Review	LS	%	0%	0	
4.20	Supervision	LS	%	5%	3	
Roadway Analysis Nontechnical Subtotal					14	
4.21	Coordination	LS	%	2%	1	
4. Roadway Analysis Total					71	

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
5.1	Key Sheet		Sheet	1	0	1	0	
5.3	Drainage Maps		Sheet	1	0	1	0	
5.4	Typical Section Sheets			1	0	1	0	
5.4.1	Typical Sections		EA	1	0	1	0	
5.4.2	Typical Section Details		EA	1	0	1	0	
5.5	General Notes/Pay Item Notes		Sheet	1	0	1	0	
5.6	Summary of Quantities		Sheet	1	0	1	0	
5.7	Box Culvert Data Sheet		Sheet	1	0	1	0	
5.8	Bridge Hydraulics Recommendation Sheets		Sheet	1	0	1	0	
5.9	Summary of Drainage Structures		Sheet	1	0	1	0	
5.10	Optional Pipe/Culvert Material		Sheet	1	0	1	0	
5.11	Project Layout		Sheet	1	0	1	0	
5.12	Plan/Profile Sheet		Sheet	1	0	1	0	
5.13	Profile Sheet		Sheet	1	0	1	0	
5.14	Plan Sheet		Sheet	1	0	1	0	
5.15	Special Profile		Sheet	1	0	1	0	
5.16	Back-of-Sidewalk Profile Sheet		Sheet	1	0	1	0	
5.17	Interchange Layout Sheet		Sheet	1	0	1	0	
5.18	Ramp Terminal Details (Plan View)		Sheet	1	0	1	0	
5.19	Intersection Layout Details		Sheet	1	0	1	0	
5.20	Special Details		EA	1	0	1	0	

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
5.21	Drainage Structure Sheet (Per Structure)		EA	1	0	1	0	
5.22	Miscellaneous Drainage Detail Sheets		Sheet	1	0	1	0	
5.23	Lateral Ditch Plan/Profile		Sheet	1	0	1	0	
5.24	Lateral Ditch Cross Sections		EA	1	0	1	0	
5.25	Retention/Detention Ponds Detail Sheet		Sheet	1	0	1	0	
5.26	Retention Pond Cross Sections		EA	1	0	1	0	
5.27	Cross-Section Pattern Sheet		Sheet	1	0	1	0	
5.28	Roadway Soil Survey Sheet		Sheet	1	1	1	1	By others. Coordination with geotech.
5.29	Cross Sections		EA	1	8		8	Add x-section along NW 34 St. Include soil borings along NW 117 Ave.
5.30	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	0	
5.31	Temporary Traffic Control Cross Section Sheets		EA	0	0		0	
5.32	Temporary Traffic Control Detail Sheets		Sheet	1	32	1	32	Detailed detours on NW 117th Avenue and NW 34th Street (includes bike detour)
5.33	Utility Adjustment Sheets		Sheet	0	0	0	0	
5.34	Selective Clearing and Grubbing		Sheet	0	0	0	0	
5.35	Erosion Control Plan		Sheet	0	0	0	0	
5.36	SWPPP		Sheet	2	0	2	0	
5.37	Project Network Control Sheet		Sheet	0	0	0	0	
5.38	Environmental Detail Sheets		LS	0	0	0	0	
5.39	Utility Verification Sheet (SUE Data)		Sheet	1	1	1	1	By others. Coordination with Survey.
Roadway Plans Technical Subtotal						33	42	
5.40	Quality Assurance/Quality Control		LS	%	5%		2	
5.41	Supervision		LS	%	5%		2	
5. Roadway Plans Total						33	46	

5. Roadway Plans

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6.1	Determine Base Clearance Water Elevation	Per Basin	1	0	0	
6.4	Design of Ditches	Per Ditch Mile	0	0	0	
6.5	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	
6.6	Design of Stormwater Management Facility (Roadside Ditch as Linear Pond)	Per Cell	0	0	0	
6.7	Design of Flood Plain Compensation	Per Flood-plain Basin	0	0	0	
6.8	Design of Storm Drains	EA	24	0	0	
6.9	Optional Culvert Material	LS	0	0	0	
6.10	French Drain Systems	Per Cell	6	0	0	
6.11	Drainage Wells	EA	0	0	0	
6.12	Drainage Design Documentation Report	LS	1	0	0	
6.13	Bridge Hydraulic Report	EA	0	0	0	
6.14	Temporary Drainage Analysis	LS	0	0	0	
6.15	Cost Estimate	LS	1	0	0	
6.16	Technical Special Provisions	LS	1	0	0	
6.17	Other Drainage Analysis	LS	1	0	0	

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
Drainage Analysis Technical Subtotal					0	
6.18	Field Reviews	LS	0	0	0	
6.19	Technical Meetings	LS	1	0	0	Meetings are listed below
6.20	Quality Assurance/Quality Control	LS	%	5%	0	
6.21	Independent Peer Review	LS	%	0%	0	
6.22	Supervision	LS	%	5%	0	
Drainage Analysis Nontechnical Subtotal					0	
6.23	Coordination	LS	%	2%	0	
6. Drainage Analysis Total					0	

Technical Meetings

Base Clearance Water Elevation	EA	0	0	0
Pond Siting	EA	0	0	0
RER	EA	0	0	0
Local Governments (cities, counties)	EA	0	0	0
City Drainage	EA	0	0	0
Other Meetings	EA	0	0	0

Subtotal Technical Meetings 0

Progress Meetings (if required by City)	EA	0	0	0
Phase Review Meetings	EA	0	0	0

Total Meetings 0

Carries to 6.19

Note: Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3

Estimator:

8. Environmental Permits

NW 117th Ave from NW 25th St to NW 34th St

0

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.1	Preliminary Project Research	LS	1	0	0	
8.2	Complete Permit Involvement Form	LS	1	0	0	
8.3	Field Work					
8.3.1	Pond Site Alternatives	LS	1	0	0	
8.3.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	0	0	
8.3.3	Species Surveys	LS	1	0	0	
8.3.4	Archeological	LS	1	0	0	
8.4	Agency Verification of Wetland Data	LS	1	0	0	
8.5	Complete And Submit All Required Permit Applications					
8.5.1	Complete and Submit All Required Wetland Permit Applications	LS	1	0	0	
8.5.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.6	Prepare Dredge and Fill Sketches (as needed)	LS	1	0	0	
8.7	Prepare USCG Permit Sketches	LS	1	0	0	
8.8	Prepare Water Management District Right-of-Way Occupancy Sketches	LS	1	0	0	
8.9	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.10	Prepare Tree Permit Information	LS	1	24	24	Tree Permit - Coordination with County and preparation of exhibits
8.11	Mitigation Design	LS	1	0	0	
8.12	Mitigation Coordination and Meetings	LS	1	0	0	

8.13	Other Environmental Permits	LS	1	24	24	DRER Class III Permit
	Environmental Clearances/Reevaluations					
8.14	Technical support to Department for Environmental Clearances and Reevaluations					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Features	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat	LS	1	0	0	
8.14.5	Wildlife and Habitat Impact Analysis	LS	1	0	0	
8.14.6	Section 7 or Section 10 Consultation	LS	1	0	0	
8.15	Preparation of Environmental Clearances and Reevaluations					
8.15.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.15.2	Archaeological and Historical Features	LS	1	0	0	
8.15.3	Wetland Impact Analysis	LS	1	0	0	
8.15.4	Wildlife and Habitat Impact Analysis	LS	1	0	0	
8.15.5	Section 7 or Section 10 Consultation	LS	1	0	0	
8.16	Contamination Impact Analysis	LS	1	0	0	
8.17	Asbestos Survey	LS	1	0	0	
Environmental Permits, Compliance, and Clearances/Reevaluations Technical Subtotal					48	
8.18	Technical Meetings	LS	1	16	16	
8.19	Quality Assurance/Quality Control	LS	%	5%	2	
8.20	Supervision	LS	%	0%	0	
Environmental Permits, Compliance and Clearances Nontechnical Subtotal					18	
8.21	Coordination	LS	%	2%	1	
8. Environmental Permits, Compliance and Clearances Total					67	

Technical Meetings					
WMD - RER	EA	0	0	0	
NMFS	EA	0	0	0	
ACOE	EA	0	0	0	
USCG	EA	0	0	0	
USFWS	EA	0	0	0	
FFWCC	EA	0	0	0	
MDC	EA	4	4	16	
Other Meetings	EA	0	0	0	
Subtotal Technical Meetings				16	
Progress Meetings	EA	0	0	0	
Phase Review Meetings	EA	0	0	0	

Meetings for DRER and Tree Permits to determine the permit needs, includes meeting minutes, meeting prep.

Estimator: John Izquierdo, P.E

NW 117 Avenue at NW 25 Street Traffic Analysis
WO8

Representing		Print Name				Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
4.0	ENGINEERING ANALYSIS AND CONSIDERATIONS					
4.1	Review of Previous Studies	LS	1	0	0	
4.2	Existing Conditions Analysis					
	Data Collection	LS	1	8	8	GF: 8 hours Desktop review of existing conditions, existing geometry, previous studies and plans, review the LRTP and TIP documents, and available plans for approved developments.
	Field Review	LS	1	4	4	GF: 4 hours 2 hours for AM peak period + 2 hours for PM peak period
	Analysis *	LS	1	6	6	GF: 6 hours Process and document field observation notes.
	4.2 Existing Conditions Analysis Total				18	
4.3	Survey					
	4.3.1 Survey Design *	LS	1	0	0	
	Survey Coordination	LS	1	0	0	
	4.3.2 Photogrammetry (Optional) *	LS	1	0	0	
	Aerial Photography	LS	1	0	0	
	4.3 Survey Total				0	
4.4	Geotechnical Investigation					
	Geotechnical Design Services *	LS	1	0	0	
	Geotechnical Review	LS	1	0	0	
	Geotechnical Coordination	LS	1	0	0	
	4.4 Geotechnical Investigation Total				0	
4.5	Traffic Analysis					
	Traffic Analysis Review	LS	1	8	8	GF: 8 hours to review available traffic data from FDOT traffic online and obtain applicable factors.

4.5.1 Traffic Analysis Methodology *	LS	1	4	4	GF: 4 hours for coordination with the County for proposed approach 2 hours x 2 staff
4.5.2 Traffic Counts *	LS	1	20	20	GF: 20 hours 8 hours turning movement counts 2 staff x 2 hours for equipment set up x 2 hour for equipment pick up Data processing and summary tables: 12 hours
4.5.3 Vehicle Class. Counts on Roadway Segments and Ramps *	LS	1	0	0	NA
4.5.4 Pedestrian, Bicycle, and Other Multimodal Data *	LS	1	0	0	Covered in section 4.5.4
4.5.5 Calibration and Validation Data for Microsimulation (Optional) *	LS	1	0	0	NA
4.5.6 Existing Traffic Operational Analysis *	LS	1	20	20	GF:20 hours to develop roadway network using Synchro 4 hours X 1 intersection x 2 peak periods X 2 alternatives (build vs no build) + 4 hours for reasonableness check. Synchro analysis will only be performed for existing year build and no build. No travel demand forecast will be performed.
4.5.7 Future Demand Forecasting *	LS	1	0	0	NA
4.5.8 No-Build Analysis *	LS	1	0	0	NA
4.5.9 Development and Screening of Build Alternatives *	LS	1	0	0	NA
4.5.10 Intersection Control Evaluation (ICE) *	LS	1	0	0	NA

	4.5.11 Operational Evaluation of Build Alternatives *	LS	1	0	0	NA
	4.5.12 Project Traffic Analysis Report *	LS	1	28	28	GF :28 hrs Traffic memo (24 hours for draft and 4 hours for final)
	4.5.13 Interchange Access Request *	LS	1	0	0	NA
	4.5.14 Traffic Data for Noise Study *	EA	0	0	0	NA
	4.5.15 Traffic Data for Air Quality Analysis *	EA	0	0	0	NA
	4.5.16 Signalization Analysis (Optional) *	LS	1	0	0	NA
	4.5 Traffic Analysis Total					80
4.21	Engineering Analysis Documentation					
	Draft Preliminary Engineering Report *	LS	1	0	0	
	Final Preliminary Engineering Report *	LS	1	0	0	
	4.21.1 Constructability Review *	LS	1	2	2	Assumes two meetings with County and the City
	4.21 Engineering Analysis Documentation Total					2
Engineering Analysis and Report Subtotal					100	
Hours Subject to QC					80	
	Quality Assurance / Quality Control	LS	%	5%	4	
ENGINEERING ANALYSIS AND REPORT TOTAL HOURS					104	

Project Activity 21: Signalization Analysis

Estimator: Constanza Suarez, PE

NW 117th Ave from NW 25th St to NW 34th St

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
21.1	Traffic Data Collection	LS	0	0	0	
21.2	Traffic Data Analysis	PI	0	0	0	
21.3	Signal Warrant Study	LS	0	0	0	
21.4	System Timings	LS	1	2	2	Update controller signal timing table for all-red clearance and to include pedestrian signals.
21.5	Reference and Master Signalization Design File	PI	1	20	20	Update intersection of NW 34 St to include pedestrian signals, relocate loops
21.6	Reference and Master Interconnect Communication Design File	LS	1	0	0	
21.7	Overhead Street Name Sign Design	EA	3	0	0	
21.8	Pole Elevation Analysis	LS	1	0	0	
21.9	Traffic Signal Operation Report	LS	0	0	0	
21.10	Quantities	LS	1	2	2	Update quantities to include pedestrian signals
21.11	Cost Estimate	LS	1	2	2	Update estimate to include pedestrian signals
21.12	Technical Special Provisions	LS	0	0	0	
21.13	Other Signalization Analysis	LS	0	0	0	
Signalization Analysis Technical Subtotal					26	
21.14	Field Reviews	LS	1	0	0	
21.15	Technical Meetings	LS	1	0	0	
21.16	Quality Assurance/Quality Control	LS	%	5%	1	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	5%	1	
Signalization Analysis Nontechnical Subtotal					2	
21.19	Coordination	LS	%	0%	0	

Project Activity 21: Signalization Analysis

21. Signalization Analysis Total	28	
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Technical Meetings

County Traffic Operations	EA	0	0	0
County Traffic Design	EA	1	0	0
Power Company (service point coordination)	EA	1	0	0
Maintaining Agency (cities, counties)	EA	1	0	0
Railroads	EA	0	0	0
Other Meetings	EA	1	0	0

Subtotal Technical Meetings

0

Progress Meetings	EA	0	0	0
Phase Review Meetings	EA	0	0	0

Total Meetings

0

Carries to 21.15

Note: Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3

Project Activity 22: Signalization Plans

Estimator: Constanza Suarez, PE

NW 117th Ave from NW 25th St to NW 34th St
0

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
22.1	Key Sheet		Sheet	1	0	1	0	
22.2	Summary of Pay Items Including TRNS•Port Input		Sheet	0	0		0	N/A
22.3	Tabulation of Quantities		Sheet	1	2	1	2	Update tabulation of quantities sheet
22.4	General Notes/Pay Item Notes		Sheet	1	0	1	0	
22.5	Plan Sheet		Sheet	1	4	2	4	Update plan sheet to show pedestrian signals
22.6	Interconnect Plans		Sheet	0	0	1	0	Assume not interconnected
22.7	Traffic Monitoring Site		EA	0	0		0	N/A
22.8	Guide Sign Worksheet		EA	3	0	1	0	
22.9	Special Details		Sheet	2	0	2	0	
22.10	Special Service Point Details		EA	2	0	1	0	
22.11	Mast Arm/Monotube Tabulation Sheet		PI	3	0	2	0	
22.12	Strain Pole Schedule		PI	0	0		0	
22.13	TCP Signal (Temporary)		EA	0	0		0	
22.14	Temporary Detection Sheet		PI	0	0		0	
22.15	Utility Conflict Sheet		Sheet	0	0		0	
22.16	Interim Standards		LS	0	0		0	
Signalization Plans Technical Subtotal						12	6	
22.17	Quality Assurance/Quality Control		LS	%	5%		0	
22.18	Supervision		LS	%	5%		0	
22. Signalization Plans Total						12	6	

Project Activity 23: Lighting Analysis

Estimator: Constanza Suarez, PE

NW 117th Ave from NW 25th St to NW 34th St
0

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
23.1	Lighting Justification Report	LS	1	0	0	
23.2	Lighting Design Analysis Report	LS	1	8	8	Update report to include vertical illumination evaluation
23.3	Aeronautical Evaluation	LS	1	0	0	
23.4	Voltage Drop Calculations	LS	1	2	2	Verify calculations based on vertical illumination requirements
23.5	FDEP Coordination and Report	LS	1	0	0	
23.6	Reference and Master Design Files	LS	1	8	8	Update based on vertical illumination requirements
23.7	Temporary Lighting	LS	1	0	0	
23.8	Design Documentation	LS	1	0	0	
23.9	Quantities	LS	1	2	2	Update based on vertical illumination requirements
23.10	Cost Estimate	LS	1	2	2	Update based on vertical illumination requirements
23.11	Technical Special Provisions	LS	1	0	0	
23.12	Other Lighting Analysis	LS	1	0	0	
Lighting Analysis Technical Subtotal					22	
23.13	Field Reviews	LS	1	0	0	
23.14	Technical Meetings	LS	1	0	0	
23.15	Quality Assurance/Quality Control	LS	%	5%	1	
23.16	Independent Peer Review	LS	%	0%	0	
23.17	Supervision	LS	%	5%	0	
Lighting Analysis Nontechnical Subtotal					1	
23.18	Coordination	LS	%	2%	0	
23. Lighting Analysis Total					23	

Project Activity 23: Lighting Analysis

Technical Meetings				
County Lighting Design	EA	0	0	0
County Traffic Design	EA	0	0	0
coordination)	EA	0	0	0
Maintaining Agency (cities, counties)	EA	0	0	0
Airport authority	EA	0	0	0
FDEP Lighting (coast areas)	EA	0	0	0
Other Meetings	EA	0	0	0
Subtotal Technical Meetings				0
Progress Meetings	EA	0	0	0
Phase Review Meetings	EA	0	0	0
Total Meetings				0

Carries to 23.14

Note: Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3

Project Activity 24: Lighting Plans

Estimator:

NW 117th Ave from NW 25th St to NW 34th St
0

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
24.1	Key Sheet		Sheet	0	0	0	0	
24.2	Summary of Pay Items Including TRNS•Port Input		Sheet	0	0	0	0	
24.3	Tabulation of Quantities		Sheet	1	2	1	2	Update based on vertical illumination requirements
24.4	General Notes/Pay Item Notes		Sheet	0	0	0	0	
24.5	Pole Data, Legend and Criteria		Sheet	1	4	1	4	Update based on vertical illumination requirements
24.6	Service Point Details		Sheet	0	0	0	0	
24.7	Project Layout		Sheet	0	0	0	0	
24.8	Plan Sheet		Sheet	1	8	1	8	Update based on vertical illumination requirements
24.9	Special Details		Sheet	0	0	0	0	
24.10	Temporary Lighting Data and Details		Sheet	0	0	0	0	
24.11	Traffic Control Plan Sheets		Sheet	0	0	0	0	
24.12	Interim Standards		LS	0	0	0	0	
Lighting Plans Technical Subtotal						3	14	
24.13	Quality Assurance/Quality Control		LS	%	5%		1	
24.14	Supervision		LS	%	0%		0	
24. Lighting Plans Total						3	15	

APPENDIX A

SUB-CONSULTANT FEE PROPOSAL FOR SCOPE OF SERVICES

GEOSOL, INC

Gannett Fleming, Inc.
800 NW 62nd Avenue, Suite 490
Miami, FL 33126

February 27, 2025
(Revised March 12, 2025)

Attention: Ms. Alina Fernandez, P.E. - Project Manager

Re: **Technical and Fee Proposals for Geotechnical Services**
Proposed NW 117th Avenue Improvements from NW 25th Street to NW 34th Street
City of Doral, Florida
GEOSOL Proposal No. P-225126-R2

Dear Ms. Fernandez:

GEOSOL, Inc. (GEOSOL) is pleased to submit the revised enclosed technical and fee proposals to provide geotechnical services for the above-referenced project as requested on March 7, 2025. The enclosed proposal was prepared in accordance with the scope of services you provided on February 26, 2025. Based on our discussion, we understand that this project consists of roadway widening to the west side of NW 117th Avenue, reconstruction and milling and resurfacing of existing roadway, and drainage improvements along NW 117th Avenue from NW 25th Street to NW 34th Street, and along NW 34th Street just east of NW 117th Avenue in the City of Doral, Florida with a total length of about 3,100 linear feet along NW 117th Avenue and about 300 linear feet along NW 34th Street. Specifically, geotechnical services will be required in order to explore the subsurface conditions to provide site preparation recommendations for the proposed improvements. As you requested, the geotechnical services will consist of the following:

- 1) Perform seventeen (17) Standard Penetration Test (SPT) borings to depths of 6 feet for use in roadway reconstruction to the existing westbound side of NW 117th Avenue. The SPT borings will be generally performed at 200-foot intervals along the alignment of the proposed roadway widening. The SPT boring will be performed in accordance with ASTM D-1586.
- 2) Perform seventeen (17) Standard Penetration Test (SPT) borings to depths of 6 feet for use in roadway reconstruction of the existing eastbound roadway along NW 117th Avenue. The SPT borings will be generally performed at 200-foot intervals along the alignment of the proposed roadway reconstruction. The SPT boring will be performed in accordance with ASTM D-1586.
- 3) Perform two (2) Standard Penetration Test (SPT) borings to depths of 6 feet for use in roadway widening along NW 34th Street. The SPT borings will be generally performed at 200-foot intervals along the alignment of the proposed roadway widening. The SPT boring will be performed in accordance with ASTM D-1586.
- 4) Perform laboratory classification testing on select soil and water samples.

Based on the anticipated scope of services, we are anticipating that we can submit a geotechnical report within six (6) to seven (7) weeks after receiving Notice to Proceed (NTP) and includes test layout, permitting, field exploration, laboratory testing and report preparation.

The estimated total fee for the performance of the geotechnical services for this project is **\$18,401.00**. The fee proposal is provided in Attachment 1 for your review.

GEOSOL appreciates the opportunity to submit these proposals and looks forward to a successful team effort on this and future projects. If you have any questions, please do not hesitate to call our office.

Sincerely,
GEOSOL, INC.



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

Attachments: (1) Fee Proposal
cc: Addressee (1); File (1)



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

ATTACHMENT 1

FEE PROPOSAL



GEOSOL, INC.
REVISED FEE PROPOSAL FOR GEOTECHNICAL SERVICES
Proposed NW 117th Avenue Improvements from NW 25th Street to NW 34th Street
City of Doral, Florida

GEOSOL PROPOSAL No. P-225126-R2

<u>DESCRIPTION</u>	UNITS	# OF UNITS	UNIT RATE (\$)	TOTAL \$
1. FIELD INVESTIGATION				
Mobilization of Truck Mounted Drill Rig	day	2	\$425.00	\$850.00
Standard Penetration Test Borings - 17 locations to 6 ft in depth for roadway reconstruction to the existing westbound side of NW 117th Avenue	feet	102	\$18.00	\$1,836.00
Standard Penetration Test Borings - 17 locations to 6 ft in depth for roadway reconstruction to the existing eastbound side of NW 117th Avenue	feet	102	\$18.00	\$1,836.00
Standard Penetration Test Borings - 2 locations to 6 ft in depth for widening along NW 34th Street	feet	12	\$18.00	\$216.00
Grout Seal Boreholes	feet	216	\$8.00	\$1,728.00
MOT - Cones, Barricades and Sign Devices	day	5.0	\$250.00	\$1,250.00
Off-Duty Police Officer (for borings through existing pavement)	hour	16	\$75.00	\$1,200.00
Senior Technician (Boring Layout, Utility Clearance, Field Meetings, MOT, etc.)	hour	12	\$75.00	\$900.00

SUB-TOTAL (FIELD EXPLORATION PROGRAM)

\$9,816.00

2. LABORATORY PROGRAM

Natural Moisture	each	8.0	\$15.00	\$120.00
Grain Size Analysis	each	6.0	\$55.00	\$330.00
Material Finer than 200 Sieve	each	6.0	\$35.00	\$210.00
Organic Content	each	5.0	\$55.00	\$275.00
Resistivity (Corrosion) Testing	each	1.0	\$150.00	\$150.00
Atterberg Limit Tests (Liquid and Plastic Limits)	each	1.0	\$120.00	\$120.00

TOTAL LABORATORY PROGRAM

\$1,205.00

TOTAL FIELD AND LABORATORY PROGRAMS

\$11,021.00

3. ENGINEERING AND TECHNICAL SERVICES

Chief Project Engineer	hour	8	\$225.00	\$1,800.00
Senior Engineer	hour	12	\$180.00	\$2,160.00
Project Engineer	hour	10	\$160.00	\$1,600.00
Engineer Intern	hour	8	\$120.00	\$960.00
CADD Technician	hour	8	\$75.00	\$600.00
Clerical	hour	4	\$65.00	\$260.00

SUB-TOTAL (ENGINEERING SERVICES)

\$7,380.00

TOTAL GEOTECHNICAL FEES FOR PROJECT

\$18,401.00

M G Vera, INC



13960 SW 47th St, Miami, FL 33175
t: 305.221.6210 | f: 305.221.1295
www.mgvera.com

April 18, 2025

SUE Scope of Service

Alina Fernandez, P.E.
Vice President
Gannett Fleming
800 NW 62nd Avenue
Suite No. 490
Miami, FL 33126

Project: City of Doral – NW 117th Ave.- Quality Level A Locates (Test Holes)
Limits: As Requested

MGV appreciates the opportunity to perform our SUE (Subsurface Utility Engineering) services on this project. Below is the scope of services. In addition to the specific scope items, all survey work shall adhere to Standards of Practices for Land Surveyors Rule 5J-17 F.A.C., Florida Statue 472.027 and SUE work will follow ASCE 38-02 Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.

Survey Control

Horizontal/Vertical Control

Project control will be established on the Florida State Plane Coordinate System, East Zone, and North American Datum (NAD) of 1983 / latest Adjustment with elevations to be established on the North American Vertical Datum (NAVD) 88 vertical datum utilizing GPS/RTK FPRN methods.

Underground Utilities

Quality Level A Locates (Test Holes) – Bank of 18

MGV will provide up to 18 Quality Level A Locates on utilities found within a 5' radius for 5 signals as directed by Gannett Fleming. MGV will utilize Electromagnetic Detection systems including GPR to identify the location of each utility requested prior to performing the test hole, ensuring each test hole is performed over the requested facility.

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').

Survey Support

Utilizing existing project survey control, MGV will map the completed utility designation marks and locates (test holes), process and place in AutoCAD/MicroStation format

Deliverables:

- One overall electronic cadd file in AutoCAD/MicroStation depicting the designated utilities at each test hole and locates (test hole) with depth of cover, size, type, material, direction, and elevation of each utility found.
- Field Test Hole Data sheet

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 or fees for signed and sealed MOT plans.

Work Zone Safety

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

Fees:

Quality Level A Locates (Test Holes – Limiting Amount): \$14,791.10
(Bank of 18 test holes- minimum 4 per request)
(Includes necessary Survey, Utility Designates and Office Processing Support)

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

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project:City of Doral NW 117th Ave.

County: Miami-Dade

FPN: 0

FAP No.: N/A

Consultant Name: Manuel G. Vera & Assoc., Inc.

Consultant No.:

Date: 4/18/2025

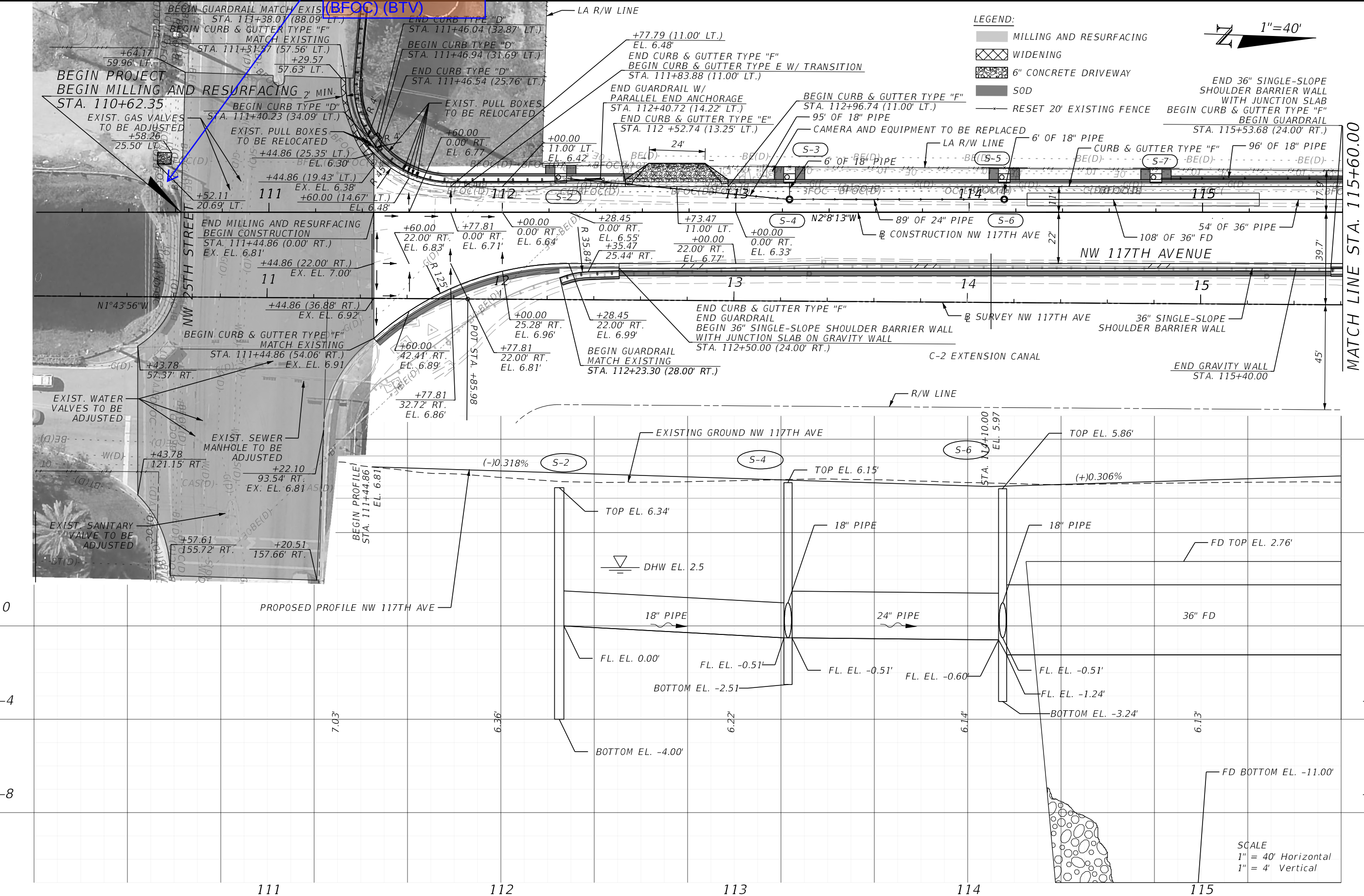
Estimator: Manny Vera Jr.

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
		\$202.62	\$165.92	\$116.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	By Activity	Cost By Activity	Rate Per Task
27. Survey (Field & Office Support)	31	3	15	13	0	0	0	0	0	0	0	0	0	31	\$4,608	\$148.64
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!
Total Staff Hours	31	3	15	13	0	0	0	0	0	0	0	0	0	31		
Total Staff Cost		\$607.86	\$2,488.80	\$1,511.12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$4,607.78	\$148.64

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

SALARY RELATED COSTS:				\$4,607.78
OVERHEAD:			0%	\$0.00
OPERATING MARGIN:			0%	\$0.00
FCCM (Facilities Capital Cost Money):			0.00%	\$0.00
EXPENSES:			0.00%	\$0.00
SUBTOTAL ESTIMATED FEE:				\$4,607.78
Survey Crew Party of 2	6	2-man crew @	\$ 1,697.22 / day	\$10,183.32
SUBTOTAL ESTIMATED FEE:				\$14,791.10
				\$0.00
GRAND TOTAL ESTIMATED FEE:				\$14,791.10

Signal - VVH#1 (BE)
(BFOC) (BTV)



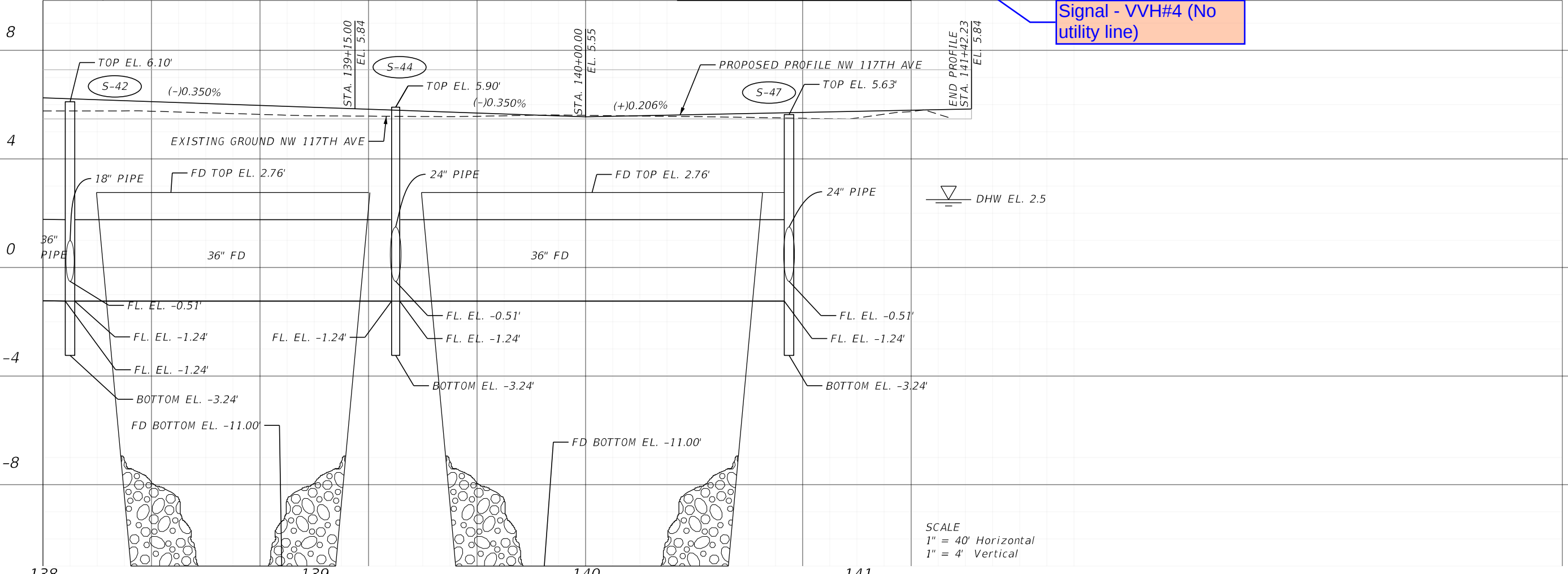
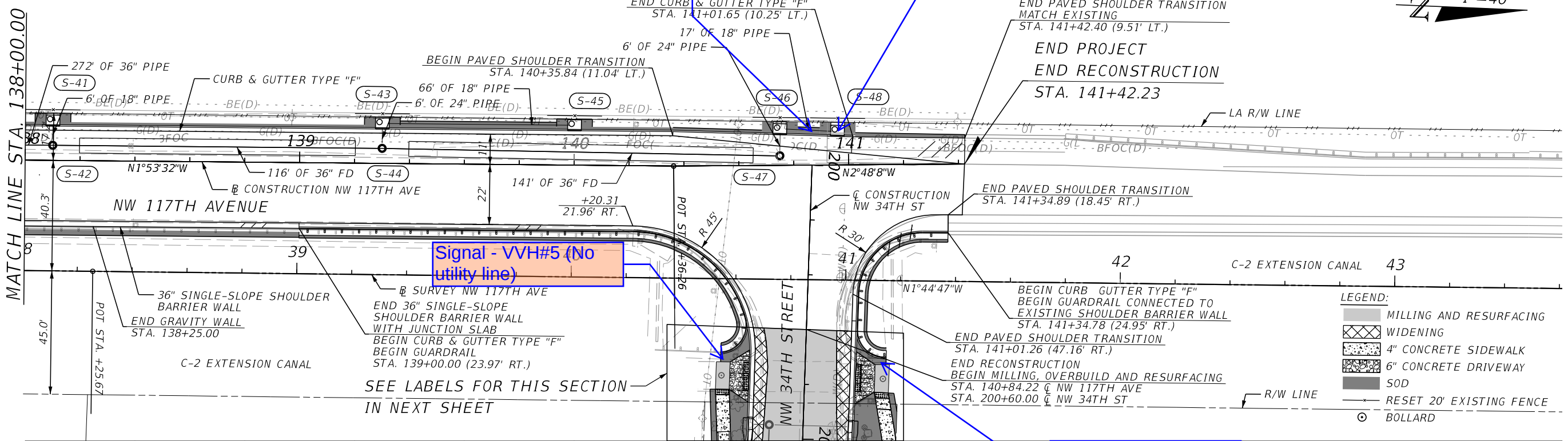
REVISIONS				ENGINEER OF RECORD	 <i>CITY OF DORAL</i>	<i>ROADWAY PLAN-PROFILE</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	LEANET MUJICA, P.E. LICENSE NUMBER: 78415 GANNETT FLEMING, INC. 800 NW 62ND AVE, SUITE 490 MIAMI, FL 33126			13
					<i>NW 117TH AVENUE IMPROVEMENTS</i>		

Signal - VVH#3 (Gas)
(BFOC) (BE)

Signal - VVH#2 (Gas)
(BFOC) (BE)

Signal - VVH#5 (No
utility line)

Signal - VVH#4 (No
utility line)



SCALE
1" = 40' Horizontal
1" = 4' Vertical

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138		139		140		141					
REVISIONS				ENGINEER OF RECORD				 CITY OF DORAL NW 117TH AVENUE IMPROVEMENTS		ROADWAY PLAN-PROFILE	
DATE	DESCRIPTION		DATE	DESCRIPTION		LEANET MUJICA, P.E. LICENSE NUMBER: 78415 GANNETT FLEMING, INC. 800 NW 62ND AVE, SUITE 490 MIAMI, FL 33126					

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.