

PROFESSIONAL SERVICE AGREEMENT

#2022-034

AMENDMENT #1

This AMENDMENT is made and entered into by and between, Polk County (the "County"), a political subdivision of the State of Florida, situated at 330 W. Church Street, Bartow, Florida 33830, and Patel, Greene, and Associates, LLC (the "Consultant"), a Florida limited liability company, located at 12570 Telecom Drive, Temple Terrace, Florida 33637, whose Federal Employer Identification Number is 45-2209743.

WITNESSETH:

WHEREAS, the County and Consultant entered into Professional Service Agreement 2022-34 dated May 3, 2022 (the "Agreement"), for the purpose of providing professional services in connection with the Stonewood Subdivision Drainage Improvements, an American Rescue Plan funded project; and

WHEREAS, pursuant to the Scope of Services contained in the Agreement, the project has been divided into two (2) Tasks, with Task 1 comprised of preliminary drainage evaluation for the recommendation of improvements at a not-to-exceed cost of \$50,775.91; and

WHEREAS, the parties now desire to amend the Agreement to incorporate and authorize Task 2, which shall be comprised of final drainage analysis based on the recommended improvements from Task 1, design, permitting, and post design services, to include, without limitation, Roadway and Drainage plans, traffic control plans, signing and pavement marking details, utility adjustment plans, special provisions, construction quantity estimates, and construction cost estimates, all as further set forth and described below.

NOW, THEREFORE, the County and the Consultant, hereby agree as follows:

1. The recitals stated above are true and correct and are fully incorporated herein.
2. The Agreement is hereby amended to modify Exhibit "A-iii" Scope of Services and Compensation of the Agreement to include the additional services needed, which are more fully set forth and described in Attachment "A" of this Amendment, attached hereto and fully incorporated herein.
3. The Consultant shall complete all Services, including, without limitation those modified and additional services set forth in this Amendment by no later than December 1, 2026, unless otherwise approved by the County in its sole and absolute discretion.
4. The cost of the additional services, which is more fully set forth and described in Attachment "A" to this Amendment #1, shall be a not-to-exceed amount of \$158,799.96, for a total not-to-exceed cost of \$209,575.87.
5. The Agreement, as amended by this Amendment #1, continues in full force and effect.

THE REMAINDER OF PAGE LEFT INTENTIONALLY BLANK

IN WITNESS WHEREOF, the parties hereto have executed this Amendment #1.

Attest:

STACY BUTTERFIELD
CLERK OF THE BOARD

POLK COUNTY, a political subdivision
of the State of Florida

By: _____
Deputy Clerk

By: _____
George Lindsey III, Chairman,
Board of County Commissioners

Date Approved by County: _____

Approved as to form and legal sufficiency:

Sandra B. Hay 2/17/23
County Attorney Date

ATTEST:

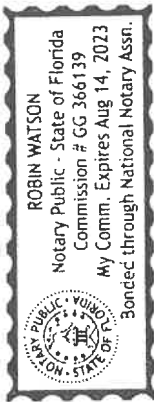
Patel, Greene, and Associates, LLC
a Florida limited liability company

By: Rosin Watson
Rosin Watson
PRINT NAME
VP / Controller
TITLE

By: Gordon M. Greene
GORDON M. GREENE
PRINT NAME
EXEC. VICE PRESIDENT
TITLE

Date: 2/20/23

SEAL



ACKNOWLEDGEMENT OF FIRM IF A LIMITED LIABILITY COMPANY

STATE OF Florida County OF Polk
The foregoing instruments was acknowledged before me by means of ☒ physical presence or ☐ online notarization this 2/2/23 (Date) by Gordon Greene (Name of officer or agent) as Executive Vice President (title of officer or agent) of the Company on behalf of the Company, pursuant to the powers conferred upon him/her by the Company. He/she personally appeared before me at the time of notarization, and ☒ is personally known to me or ☐ has produced _____ as identification and did certify to have knowledge of the matters stated in the foregoing instrument and certified the same to be true in all respects. Subscribed and sworn to (or affirmed) before me this 2/2/23 (Date).
Robin Watson (Official Notary Signature and Notary Seal)
Robin Watson (Name of Notary typed, printed or stamped)
Commission Number GG 366139 Commission Expiration Date 8/14/23

ACKNOWLEDGEMENT OF FIRM, IF A CORPORATION

STATE OF _____ County OF _____
The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization this _____ (Date) by _____ (Name of officer or agent) as _____ (title of officer or agent) of the Corporation on behalf of the Corporation, pursuant to the powers conferred upon him/her by the Corporation. He/she personally appeared before me at the time of notarization, and ☐ is personally known to me or ☐ has produced _____ as identification and did certify to have knowledge of the matters stated in the foregoing instrument and certified the same to be true in all respects. Subscribed and sworn to (or affirmed) before me this _____ (Date).

Commission Number _____ Commission Expiration Date _____

ACKNOWLEDGEMENT OF FIRM, IF AN INDIVIDUAL

STATE OF _____ County OF _____
The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization this _____ (Date) By _____ (Name of acknowledging) who personally appeared before me at the time of notarization, and ☐ is personally known to me or ☐ has produced _____ as identification and did certify to have knowledge of the matters in the foregoing instrument and certified the same to be true in all respects. Subscribed and sworn to (or affirmed) before me this _____ (Date).

Commission Number _____ Commission Expiration Date _____

ACKNOWLEDGEMENT OF FIRM, IF A PARTNERSHIP

STATE OF _____ County OF _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization this _____ (Date) by _____ (Name of acknowledging partner or agent) on behalf of _____ a partnership.

He/She personally appeared before me at the time of notarization, and ☐ is personally known to me or ☐ has produced _____ as identification and did certify to have

knowledge of the matters in the foregoing instrument and certified the same to be true in all

respects. Subscribed and sworn to (or affirmed) before me this _____ (Date) .

_____ (Official Notary Signature and Notary Seal)

_____ (Name of Notary typed, printed or stamped)

Commission Number _____ Commission Expiration Date _____

Exhibit "A"

SCOPE OF SERVICES AND COMPENSATION FOR

STONEWOOD SUBDIVISION DRAINAGE

IMPROVEMENTS FINAL DESIGN

POLK COUNTY

Contract 2022-034

Prepared by:

Patel, Greene & Associates, LLC December 27, 2022

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**SCOPE OF SERVICES AND COMPENSATION
FOR
S. PIPKIN AND OLD MEDULLA DRAINAGE
IMPROVEMENTS
POLK COUNTY**

I. DESCRIPTION

Patel, Greene & Associates, LLC (CONSULTANT) will provide professional services to Polk County Roads and Drainage Division (COUNTY) to prepare Contract Documents for the construction of the recommendations presented in the Drainage Technical Memorandum S. Pipkin and Old Medulla Drainage Improvements document, dated October 2022, for the drainage improvements.

II. OBJECTIVES

The CONSULTANT shall prepare Contract Documents for construction of the project. Elements of work shall include Roadway and Drainage Plans, Traffic Control Plans, Signing and Pavement Marking Details, Utility Adjustment Plans, Special Provisions, Construction Quantity Estimates, and Construction Cost Estimates.

The recommended improvements include:

1. S. Pipkin west side – re-grading the shallow swales in the southwest corner of S. Pipkin and Old Medulla and in front of the houses along S. Pipkin (house numbers 4605, 4611, and 4619) and constructing DBIs to provide positive drainage to the outfall ditch draining south to Poley Creek.
2. S. Pipkin east side – performing pipe desilting on all the side drain pipes in front of the houses along S. Pipkin (house numbers 4608, 4620, and 4626) and constructing missing MES end treatments on the pipes.

III. ENGINEERING DESIGN SERVICES

A. Design Survey

Complete the design survey for the area defined in Attachment A. The limits of the survey are 10 feet outside the existing right of way along S. Pipkin Road from 725 feet south of Old Medulla Road to 960 feet north of Creek Side Drive, and 350 feet along Old Medulla Road west of the intersection of S. Pipkin Road. It also includes 400 feet along Armstrong Road west of South Pipkin Road.

This work will include placing project control points and benchmarks on NAVD 1988 and the latest state plane grid, the collection of ground lines and features including all of the drainage structures including pipe invert elevations, pipe sizes and material, suitable for creation of a 3D ground model as the design survey.

B. Right-of-Way Survey

The CONSULTANT will locate existing property corners to establish the existing right of way through the project limits. The right of way lines shall be shown in the roadway plan sheets.

C. Utility Coordination and SUE

1. Utility Coordination

Utility Coordination efforts shall be performed by the CONSULTANT. The CONSULTANT shall provide Subsurface Utility investigations Levels A, B, C and D and Utility Coordination Services along with utility constructability reviews for the perceived conflicts.

Utility locations and markups per utility providers within the corridor will be provided at 60%, 100%, and Final Design including Frontier, Charter Communications, City of Lakeland Electric, City of Lakeland Wastewater and City of Lakeland Water.

2. Subsurface Utility Engineering (SUE)

SUE location Dig Sheets for each utility locate completed (assumed 5 locates)

D. Geotechnical Investigation

The CONSULTANT shall provide the geotechnical investigations and laboratory testing for the drainage improvement study in general accordance with FDOT standards.

1. Field Investigation

The work shall include the following:

- a. Complete four (4) 6-foot hand auger borings to identify the soil profiles and determine Seasonal High Groundwater Table within the ditch/drainage improvement area.
- b. Soil Samples will be classified and stratified in accordance with AASHTO soil classification system. Soil samples for laboratory soil testing will be obtained in general accordance with FDOT Soils and Foundation Handbook.
- c. U.S.G.S. and N.R.C.S. maps, historical aerials and readily available published geologic information will be used to identify areas of deleterious soils and reported Seasonal High Groundwater Table (SHGWT) information.

2. Laboratory Testing

All laboratory testing will be performed in accordance with Florida Sampling and Testing Methods or ASTM or by latest directives. Laboratory testing will include the following as required by the needs of the project.

- a. Organic Content
- b. Moisture Content
- c. Particle Size Analysis
- d. Atterberg Limits

3. Geotechnical Report

The Geotechnical Report shall include:

- a. Copies of U.S.G.S. and N.R.C.S. maps with project limits shown.

- b. A report which summarizes the laboratory test results, the soil stratifications, (i.e., soils grouped into layers of similar materials) and geotechnical evaluations.
- c. A description of the site and subsoil conditions and discussion of any special considerations (i.e., unsuitable materials and historic seasonal high groundwater).
- d. An appendix which contains stratified soil boring profiles, laboratory test data sheets, and any other pertinent information.

E. Roadway Design and Plans

Construction plans shall be prepared for the drainage improvements at the intersection of S. Pipkin and Old Medulla Road and Armstrong Road.

1. Design Criteria

CONSULTANT shall prepare the design, construction plans, and specifications in accordance with the latest editions of the following: *FDOT Design Manual (FDM)*; *A Policy on Geometric Design of Highways and Streets*, AASHTO; *Manual of Uniform Traffic Control Devices for Streets and Highways*, USDOT/FHWA; *State of Florida Manual on Traffic Control and Safe Practices for Street and Highway Construction, Maintenance and Utility Operations on the State Maintained Systems*, FDOT; *Standard Plans for Road and Bridge Construction*, FDOT; and *Manual of Uniform Minimum Standards for Design, Construction, and Maintenance for Streets and Highways (Florida Greenbook)*, FDOT.

The design plans and specifications shall be prepared in English design units.

2. Americans With Disabilities Act

All pedestrian features included in this task authorization shall be designed to meet current ADA requirements.

3. Typical Section

The CONSULTANT shall provide one typical section to define the limits of work within the project, including the areas for drainage construction and pavement reconstruction limits. Additional typical section details will be provided as necessary.

4. Pavement Design

The CONSULTANT shall coordinate the proposed asphaltic concrete pavement design with the COUNTY to determine the preferred pavement design for each road segment repairs. The pavement design shall be documented in a Pavement Design Technical Memorandum.

5. Traffic Control Plans

- a. The CONSULTANT will prepare Traffic Control Plans that present a logical sequencing of roadway construction activity. The Traffic Control Plans shall include diagrams, typical sections and a narrative of the sequencing of general work activities.

- b. Traffic Control Plans shall be prepared at a scale suitable to illustrate the necessary details.
- c. Traffic Control Plans shall be included in the 60%, 100% and Final plans submittals.
- d. Traffic Control/Construction Phasing plans shall be reviewed for impacts to existing drainage facilities and drainage patterns, and temporary drainage will be designed as required to accommodate interim conditions. Temporary drainage shall be included in the 100%, and Final plans submittals.
- e. An estimate of the quantities for traffic control devices, temporary drainage and quantities for temporary construction items shall be included in the Summary of Quantities sheets for the 100% and Final plans submittals.

6. Utility Adjustment Plans

The CONSULTANT shall prepare Utility Adjustment Plans utilizing the roadway base mapping and input from the involved utility companies.

Work shall be in accordance with the FDOT's Utility Manual, Standard Specifications, FDOT Utility Accommodation Manual 2017, current memorandums, FDOT Design Manual, and instructions as issued by the COUNTY to the CONSULTANT.

F. Drainage Design and Plans

1. General

The CONSULTANT shall analyze and document drainage tasks in accordance with applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums. All design work shall comply with the requirements of the applicable regulatory agencies. The CONSULTANT shall coordinate fully with the permitting agencies and the COUNTY's staff. All activities and submittals shall be coordinated through the COUNTY's Project Manager.

2. Drainage Criteria

The drainage criteria shall be prepared in accordance with the latest editions of the FDOT Drainage Manual, Drainage Design Guide, and regulating water management agency.

3. Drainage Analysis

CONSULTANT will include engineering analyses for design of cross drains, design of roadway ditches, design of outfalls, and design of storm drains as applicable for the proposed improvements.

4. Preliminary Drainage Design

The CONSULTANT will utilize the Drainage Technical Memorandum S. Pipkin and Old Medulla Drainage Improvements document, dated October 2022, for the intersection drainage improvements as the Preliminary Drainage Design.

In addition to the improvements identified in the Technical Memorandum, the intersection of S. Pipkin and Armstrong Road will be added to the project limits. Additional piping under driveways and side streets will be shown to maintain flow along Armstrong Road to the existing outfall.

5. Final Drainage Design

Drainage Design Technical Memorandum shall be prepared to support the drainage design. The memorandum shall identify the existing and proposed drainage patterns and calculations to develop the drainage design. The memorandum shall be submitted at 60% and updated for the 100% design milestones. Included in the memorandum will be the following information:

- a. Drainage Map plan view outlining existing and proposed drainage basin boundaries, drainage areas, and proposed drainage structures.
- b. Drainage Design Document describing drainage assumptions, drainage criteria, project drainage areas, outfall locations, drainage problem areas, existing drainage system connections, impacts to existing drainage systems, and storm sewer design calculations.

Plans for the construction of the recommendations presented in the Drainage Technical Memorandum S. Pipkin and Old Medulla Drainage Improvements document, dated October 2022, for the intersection drainage improvements shall include:

- a. Drainage Map (plan and profile view) with Aerial base map
- b. Drainage structures tables
- c. Drainage detail sheet
- d. SWPPP with Erosion Control Plans

Drainage structures in plan view shall be included in the roadway plan sheets.

G. Permitting

1. General

It is assumed that these drainage maintenance improvements will not require an Environmental Resource Permit (ERP).

2. Cultural, Archeological, & Historical Resources

Not included as part of this Scope of Services.

3. Floodplain Compensation

It is assumed that these drainage maintenance improvements will not require floodplain compensation.

H. Signing and Pavement Marking

1. Signing and Pavement Marking Criteria

The design of the signing and pavement markings shall be in accordance with the latest design standards and practices as detailed in the Manual on Uniform Traffic Control Devices (MUTCD), FDOT Standard Specifications, FDOT Standard Plans, and FDOT Design Manual.

2. Signing and Pavement Marking Details

Preparation of details shall be included with the roadway plan sheets showing the design of the new signing and pavement markings. An estimate of quantities report will also be provided.

IV. GENERAL SERVICES

The CONSULTANT shall demonstrate good project management practices while working on this project. These include communication with the COUNTY and others as necessary, management of time and resources, and documentation. The CONSULTANT shall set up and maintain throughout the design of the project a contract file. Project management services will include contract administration, budget and subcontract management and schedule maintenance with monthly status updates.

A. Contract Maintenance

Contract maintenance includes project management effort for complete setup and maintenance of files, developing monthly progress reports, schedule updates, work effort to develop and execute subconsultant agreements.

B. Progress Meetings

Project progress shall be discussed during progress meetings held with the COUNTY's Project Manager on a monthly basis beginning with the commencement of engineering design services, continued through the completion of the 60% plans. Thereafter, bi-monthly meetings will be held for the duration of the design services until completion of the Final Plans submittal. Up to five (5) such progress meetings are anticipated.

C. Signing and Sealing

Digital signing and sealing documents shall conform to the requirement established in the FDOT Design Manual.

D. Submittal Deliverables

1. Plan Scale

Plan-profile sheets shall be prepared at a scale no smaller than 1" = 50' on a horizontal plane. Plans shall be prepared on 11"x17" sheets. Cross section scales shall be selected as appropriate.

2. Preliminary Plans Submittals

Preliminary design plans shall be submitted to the COUNTY for review and comment. The requirements for the plans and documentation submittal for each phase of plans submitted for review shall conform to the requirements set forth in

the FDOT Design Manual. Digital copies of the plans shall be provided to the COUNTY for review and comment at the 60%, and 100% phases of completion. Responses to comments shall be provided by the CONSULTANT with 60%, and 100% submittals. Each submittal will be reviewed at the subsequent monthly progress meeting.

3. Final Plans Submittal

The final plans submittal shall include digital copies of the plans, special provisions, and specifications for bidding purposes.

The CONSULTANT shall deliver final contract plans and documents in digital format. The final contract plans and documents shall be digitally signed and sealed pdf files delivered to the COUNTY and be accompanied by the electronic plans in MicroStation format and the specifications files in Word® format.

E. Estimated Quantities and Cost Estimate

Estimated construction quantities will be calculated and included in the Summary of Quantities sheets. These sheets will be included with the 100% and Final plans submittals. An estimate of probable construction cost will be prepared and included with the 60%, 100% and Final plans submittals.

F. Specifications

The CONSULTANT shall prepare Technical Special Provisions as required by the design which shall include Specifications covering any special construction methods that may be required. The COUNTY shall furnish a sample specification as a guide in preparing the special provisions. These Special Provisions shall be prepared in the complimentary format as the FDOT Standard Specifications.

The Consultant will develop a construction duration estimate based on the proposed improvements. This estimate shall be included with the 100% and Final plans submittals.

G. Public Involvement

Not included as part of this Scope of Services.

H. Assistance with Right of Way Acquisition

Not included as part of this Scope of Services.

I. Bidding Phase Services

The CONSULTANT will assist the COUNTY with the preparation of all necessary bid documents. This includes Signed and Sealed Construction Plans, Technical Specifications Package, Special Conditions, Bid Tab Sheets, Final Engineer's Estimate, and a Construction Time Estimate.

The CONSULTANT will attend and participate in the Pre-Bid conference. Minutes of meeting will be prepared by the COUNTY.

The CONSULTANT will assist with bid addenda responses to questions and concerns that are submitted through the COUNTY'S Procurement Office during the bidding process.

Attend Bid Opening Meeting. Assist COUNTY in review of Contractors bids and documents as well as aid with the preparation of a bid recommendation. Minutes of meeting will be

prepared by the COUNTY.

J. Post-design Services

At the COUNTY's option, the CONSULTANT may be requested to provide other additional project related services by Change Order to this agreement. Fees for these additional services shall be negotiated for a fair, competitive, and reasonable cost, considering the scope and complexity of the work. Optional Services that may be requested include but are not limited to out-of-scope work and post design services.

V. COUNTY RESPONSIBILITIES

The COUNTY will:

- A.** Furnish the CONSULTANT with copies of existing right-of-way maps within the vicinity of the project. Existing benchmark information will be provided to the CONSULTANT at notice to proceed. Existing state plane coordinates for any known section corners or fractional corners shall also be provided at notice to proceed,
- B.** Provide timely phase reviews (within 3 weeks of submittal) of all plans, specifications, permit applications, and right-of-way maps and documents,
- C.** Assist the CONSULTANT in negotiations with utility companies, and the coordination of utility relocations and utility reconstruction,
- D.** Furnish the required title searches, and right-of-way cost estimates,
- E.** Prepare bid package using construction contract documents provided by CONSULTANT prior to bidding.

VI. QUALITY CONTROL

A. Quality Assurance Reviews

The CONSULTANT shall conduct quality assurance reviews of the work products called for in this Scope of Services to ensure they are in compliance with the requirements cited in the Scope of Services. Reviews shall be conducted to evaluate the adequacy of materials, documentation, processes and procedures included in the execution of this contract.

B. Quality Assurance Records

The CONSULTANT shall maintain adequate records for the quality assurance actions performed by his organization (including subcontractors and vendors), in providing services and products under this contract.

VII. PROJECT SCHEDULE / COMPENSATION

The Task 2 design services are estimated to be completed within nine (9) months from receiving the signed Notice to Proceed at a not to exceed fee of **\$159,624.93**. This schedule is subject to the timely delivery of information to be provided by the COUNTY. If the COUNTY requests that work under this Contract be stopped, the schedule is subject to re-negotiation when written authorization to restart is received.

Attachment "A"

**STAFFHOUR ESTIMATE
&
BACKUP DOCUMENTATION**

STAFFHOUR ESTIMATE

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Stonewood Subdivision Drainage Improvements
County: Polk
FPN: CSA #22-066-13
FAP No.: N/A

Consultant Name: Patel, Greene & Associates, LLC.
Consultant No.: 1508
Date: 12/27/2022
Estimator: Michael A. Holt

Staff Classification	Hours From "SH Summary - Firm"	Project Manager	Chief Engineer 1	Senior Engineer 1	Engineer 2	Engineer 1	Chief Designer	Senior Designer	Secretary/Clerical	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	99	88	0	0	0	0	0	0	10	\$0.00	\$0.00	\$0.00	\$0.00	99	\$21,168	\$214.02
4. Roadway Analysis	248	12	25	25	87	50	25	22	0	0	0	0	0	246	\$46,744	\$190.02
5. Roadway Plans	120	4	12	0	12	36	24	30	2	0	0	0	0	120	\$19,744	\$164.53
6a. Drainage Analysis	128	6	13	50	0	25	13	19	0	0	0	0	0	126	\$24,396	\$193.62
6b. Drainage Plans	34	1	2	6	7	0	10	7	1	0	0	0	0	34	\$6,074	\$178.65
Total Staff Hours	627	113	52	81	106	111	72	78	13	0	0	0	0	626		
Total Staff Cost		\$28,241.99	\$12,749.88	\$18,424.26	\$21,404.58	\$17,015.19	\$11,373.84	\$10,492.55	\$675.61	\$0.00	\$0.00	\$0.00	\$0.00		\$118,377.91	\$188.10

SALARY RELATED COSTS:										Check = \$118,377.91						
OVERHEAD:																\$118,377.91
OPERATING MARGIN:																\$0.00
FCCM (Facilities Capital Cost Money):																\$0.00
EXPENSES:																\$0.00
Survey (Field - if by Prime)																\$0.00
SUBTOTAL ESTIMATED FEE:																\$118,377.91
Subconsultant: CivilSurv																\$24,060.00
Subconsultant: Vortex																\$9,888.00
Subconsultant: TestLab																\$2,719.10
SUBTOTAL ESTIMATED FEE:																\$185,045.01
Geotechnical Field and Lab Testing (Test Lab)																\$3,754.95
SUBTOTAL ESTIMATED FEE:																\$188,799.96
Optional Services																\$0.00
GRAND TOTAL ESTIMATED FEE:																\$188,799.96

Survey Field Days by Subconsultant
4 - Person Crew:

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

Project Activity 3: General Tasks

Estimator: Michael A. Holt		Stonewood Subdivision Drainage Improvements CSA #22-066-13				
Representing		Print Name		Signature / Date		
FDOT District						
Consultant Name		Manny Monreal				
NOTE: Signature Block is optional, per District preference						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	N/A
3.1.2	Notifications	LS	1	0	0	N/A
3.1.3	Preparing Mailing Lists	LS	1	0	0	N/A
3.1.4	Median Modification Letters	LS	1	0	0	N/A
3.1.5	Driveway Modification Letters	LS	1	0	0	N/A
3.1.6	Newsletters	LS	1	0	0	N/A
3.1.7	Renderings and Fly Throughs	LS	1	0	0	N/A
3.1.8	PowerPoint Presentation	LS	1	0	0	N/A
3.1.9	Public Meeting Preparations	LS	1	0	0	N/A
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	N/A
3.1.11	Other Agency Meetings	LS	1	0	0	N/A
3.1.12	Web Site	LS	1	0	0	N/A
3.1 Public Involvement Subtotal					0	
3.2	Joint Project Agreements	EA	0	0	0	N/A
3.3	Specifications & Estimates					
3.3.1	Specifications Package Preparation	LS	1	24	24	Standard Specs Package to be incorporated into County Bid Documents
3.3.2	Estimated Quantities Report Preparation	Report Components	1	Calculated Hours 20	20	16 hrs + 2 hrs * 2 Components (roadway & Drainage)
3.4	Contract Maintenance and Project Documentation	LS	1	38	38	16 hrs initial set up + 2hrs * 9 months + 4hrs final project documentation
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	8	8	See listing below

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.7	Plans Update	LS	1	0	0	N/A
3.8	Post Design Services	LS	1	0	0	post design efforts will be optional services
3.9	Digital Delivery	LS	1	9	9	6 hrs for set up and first signature + 3 hrsx (1 additional signature)
3.10	Risk Assessment Workshop	LS	1	0	0	N/A
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	N/A
3.11.1	Aeronautical Evaluation	LS	1	0	0	N/A
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	N/A
3.13	Other Project General Tasks	LS	1	0	0	N/A
3. Project Common and Project General Tasks Total					99	

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.6 - List of Project Manager Meetings						
Roadway Analysis		EA	2	2	4	
Drainage		EA	1	2	2	
Utilities		EA	1	2	2	
Environmental		EA	0	0	0	
Structures		EA	0	0	0	
Signing & Pavement Marking		EA	0	0	0	
Signalization		EA	0	0	0	
Lighting		EA	0	0	0	
Landscape Architecture		EA	0	0	0	
Survey		EA	0	0	0	
Photogrammetry		EA	0	0	0	
ROW & Mapping		EA	0	0	0	
Terrestrial Mobile LIDAR		EA	0	0	0	
Architecture		EA	0	0	0	
Noise Barriers		EA	0	0	0	
ITS Analysis		EA	0	0	0	
Geotechnical		EA	0	0	0	
Progress Meetings		EA	0	0	0	
Phase Reviews		EA	0	0	0	
Field Reviews		EA	0	0	0	
Total Project Manager Meetings			4		8	Total PM Meeting Hours carries to Task 3.6 above

Notes:

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

Project Activity 4: Roadway Analysis

Estimator: Michael A. Holt

Stonewood Subdivision Drainage Improvements
CSA #22-066-13

Representing	Print Name	Signature / Date
Polk County		
Consultant Name	Michael A. Holt	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	0	0	N/A
4.2	Pavement Type Selection Report	LS	1	0	0	N/A
4.3	Pavement Design Package	LS	1	4	4	Pavement Design shall be documented in the Design Report and construction plans
4.4	Cross-Slope Correction	LS	1	0	0	N/A
4.5	Horizontal/Vertical Master Design Files	LS	1	80	80	Roadway horizontal and vertical design work, includes design, grading, and necessary pavement reconstruction
4.6	Access Management	LS	1	0	0	N/A
4.7	Roundabout Final Design Analysis	LS	1	0	0	N/A
4.8	Cross Section Design Files	LS	1	50	50	25 driveway sections at 2 hrs each
4.9	Temporary Traffic Control Plan Analysis	LS	1	8	8	TCP by standard plans reference - Notes only
4.10	Master TTCP Design Files	LS	1	0	0	
4.11a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	1	0	0	N/A
4.11b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	N/A

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.11c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	N/A
4.12	Tree Disposition Plan	LS	1	0	0	N/A
4.13	Design Variations and Exceptions	LS	1	0	0	N/A
4.14	Design Report	LS	1	0	0	N/A
4.15	Roadway Quantities for EQ Report	Length (Miles)	0.50	Calculated Hours 36	24	Roadway and TCP Quantities
		Complexity	Below Range			
		Interchanges Rest Areas	0			
4.16	TTCP Quantities for EQ Report	Complexity	Simple	Calculated Hours 0	0	N/A
		Major Phases	0			
4.17	Cost Estimate	LS	1	20	20	8 hrs initial estimate, 3 updates at 4 hrs each
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
4.19	Other Roadway Analyses	LS	1	15	15	Sign inventory, tabular summary of quantities, and general notes providing direction to contractor. Separate signing and marking plans are not required. Includes quantities for EQ report and cost estimate.
Roadway Analysis Technical Subtotal					201	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	0	0	Covered under Task 6a.24
4.21	Monitor Existing Structures	LS	1	0	0	N/A
4.22	Technical Meetings	LS	1	11	11	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	7%	14	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	10	
Roadway Analysis Nontechnical Subtotal					35	
4.26	Coordination	LS	%	5%	12	
4. Roadway Analysis Total					248	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0			0
Pavement	EA	0	0	0			0
Access Management	EA	0	0	0			0
15% Line and Grade	EA	0	0	0			0
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	0	0	0			0
Work Zone Traffic Control	EA	0	0	0			0
30/60/90/100% Comment Review Meetings	EA	0	0	0			0
Other Meetings	EA	1	2	2	Utility Coordination	yes	2
Subtotal Technical Meetings					Subtotal Project Manager Meetings		2
Progress Meetings (if required by FDOT)					PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings					PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings					Total Project Manager Meetings (carries to Tab 3)		2

Carries to 4.21

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator: Jonathan Jones

Stonewood Subdivision Drainage Improvements
CSA #22-066-13

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name	Jonathan Jones	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	2	6	12	Key Sheet & Signature Sheet
5.2	Typical Section Sheets						
5.2.1	Typical Sections		EA	1	8	8	1 typical section - subdivision streets
5.2.2	Typical Section Details		EA	1	8	8	One typical section details sheet
5.3	General Notes/Pay Item Notes		Sheet	2	4	8	General Notes Sheet & Notes to Reviewer
5.4	Project Layout		Sheet	1	6	6	1 Project Layout Sheet showing alignments and sheet clips
5.5	Plan/Profile Sheet		Sheet	0	0	0	N/A
5.6	Profile Sheet		Sheet	0	0	0	N/A
5.7	Plan Sheet		Sheet	10	4	40	(10) 40-scale plan sheets
5.8	Special Profile		Sheet	0	0	0	N/A
5.9	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	N/A
5.10	Interchange Layout Sheet		Sheet	0	0	0	N/A
5.11	Ramp Terminal Details (Plan View)		Sheet	0	0	0	N/A
5.12	Intersection Layout Details		Sheet	0	0	0	N/A
5.13	Special Details		EA	0	0	0	N/A
5.14	Cross-Section Pattern Sheets		Sheet	0	0	0	N/A
5.15	Roadway Soil Survey Sheets		Sheet	0	0	0	N/A
5.16	Cross Sections		EA	25	0.5	13	25 Driveway Sections

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.17	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	N/A
5.18	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	N/A
5.19	Temporary Traffic Control Detail Sheets		Sheet	1	8	8	1 TCP Sheet: TCP General Notes, MOT by indices
5.20	Utility Adjustment Sheets		Sheet	0	0	0	N/A - included on plan sheets if necessary
5.21	Selective Clearing and Grubbing Sheets						
5.21.1	Selective Clearing and Grubbing		Sheet	0	0	0	N/A
5.21.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	N/A
5.22	Tree Disposition Sheets						
5.22.1	Tree Disposition Plan Sheets		Sheet	0	0	0	N/A
5.22.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	N/A
5.23	Project Control Sheets		Sheet	1	1	1	Furnished by Surveyor
5.24	Environmental Detail Sheets		Sheet	0	0	0	N/A
5.25	Utility Verification Sheets (SUE Data)		Sheet	0	0	0	N/A
Roadway Plans Technical Subtotal						104	
5.26	Quality Assurance/Quality Control		LS	%	10%	10	
5.27	Supervision		LS	%	6%	6	
5. Roadway Plans Total						120	

Project Activity 6a: Drainage Analysis

Estimator: Manny Monreal

Stonewood Subdivision Drainage Improvements
CSA #22-066-13

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name	Manny Monreal	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	1	4	4	
6a.2	Base Clearance Calculations	Per Location	1	4	4	provide drainage map, design documentation only, not for plans
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	Establish design SHWE for use in determining appropriate pavement design
6a.4	Design of Cross Drains	EA	0	0	0	N/A
6a.5	Design of Ditches	Per Ditch Mile	0	0	0	N/A
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	N/A
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	N/A
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	N/A
6a.9	Design of Storm Drains	EA	0	0	0	N/A - base flowrate from underdrain anticipated to be low enough for no substantive impacts to system performance.
6a.10	Optional Culvert Material	EA	0	0	0	N/A
6a.11	French Drain Systems	Per Cell	6	4	24	Design of underdrain systems - terminate @ existing inlets (simple, below range for complexity)
6a.11.1	Existing French Drain Systems	Per Cell	0	0	0	N/A
6a.12	Drainage Wells	EA	0	0	0	N/A
6a.13	Drainage Design Documentation Report	LS	1	40	40	Drainage Design Document describing drainage assumptions, drainage criteria, project drainage areas, outfall locations, drainage problem areas, existing drainage system connections, impacts to existing drainage systems
6a.14	Bridge Hydraulic Report	EA	0	0	0	N/A
6a.15	Temporary Drainage Analysis	LS	1	0	0	N/A

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.16	Drainage Quantities for EQ Report	Drainage Structures	6	Calculated Hours 8	8	
6a.17	Cost Estimate	LS	1	4	4	provide input to Engineers Construction Cost Estimate 2 hours for 60%, and 1 hour for 100% and Final.
6a.18	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	N/A
6a.19	Hydroplaning Analysis	LS	1	0	0	N/A
6a.20	Existing Permit Analysis	LS	1	0	0	N/A
6a.21	Other Drainage Analysis	LS	1	0	0	N/A
6a.22	Noise Barrier Evaluation	LS	1	0	0	N/A
6a.23	Erosion Control Plan	Per Mile	0	0	0	N/A
Drainage Analysis Technical Subtotal					84	
6a.24	Field Reviews	LS	1	12	12	to review site conditions prior to design (2 people, one site visit, 6 hours each)
6a.25	Technical Meetings	LS	1	13	13	Meetings are listed below
6a.26	Environmental Look-Around (ELA) Meeting	LS	1	0	0	N/A
6a.27	Quality Assurance/Quality Control	LS	%	10%	8	
6a.28	Independent Peer Review	LS	%	0%	0	
6a.29	Supervision	LS	%	6%	5	
Drainage Analysis Nontechnical Subtotal					38	
6a.30	Coordination	LS	%	3%	4	
6a. Drainage Analysis Total					125	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency	EA	1	2	2	Meeting with County to review proposed improvements		0
Local Governments (cities, counties)	EA	0	0	0			0
FDOT Drainage	EA	0	0	0			0
Other Meetings	EA	1	2	2	Utility kick-off (1 hr X 2 attendees)		0
Subtotal Technical Meetings							0
Progress Meetings (if required by FDOT)	EA	5	1	5	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	2	2	4	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings					Total Project Manager Meetings (carries to Tab 3)		0

Carries to 6a.25

Carries to Tab.3

6b. Drainage Plans

Estimator: Manny Monreal												6b. Drainage Plans Staff Hours												Sunwood Subdivision Drainage Improvements CSA #22-066-13											
Representing				Print Name								Signature / Date																							
FDOT District																																			
Consultant Name				Manny Monreal																															
NOTE: Signature Block is optional, per District preference																																			
Task No.	Task	Project Parameter			Staff Hours				Documentation																										
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	Provide documentation when negotiated hours differ from the calculated hours.																										
6b.1	Drainage Map (Including Interchanges)	Length (Miles)	0.50	Low Range	5	0	4	4	Drainage map for documentation only, not for plans.																										
6b.2	Bridge Hydraulics Recommendation Sheets	Bridges	0		0	0	0	0	N/A																										
6b.3	Drainage Structures	Drainage Structures	0		0	0	0	0																											
		Details	3		9	0	9	9	Details - underdrain, cleanout, and exist structure tap-in.																										
		Ditches	0	Standard	0	0	0	0	N/A																										
6b.4	Lateral Ditches		0	Complex	0	0	0	0	N/A																										
		Cross Section Alignments	0		0	0	0	0	N/A																										
		Ponds	0	Standard	0	0	0	0	N/A																										
6b.5	Retention/Deletion/Floodplain Compensation Ponds		0	Complex	0	0	0	0	N/A																										
		Cross Section Alignments	0		0	0	0	0	N/A																										
		Length (Miles)	0.50	Low Range	1	0	4	4																											
6b.6	Erosion Control Plan																																		
6b.7	SWPPP		1	Standard	6	0	6	6																											
		Drainage Plans Technical Subtotal				21	0	23	23																										
6b.8	Quality Assurance/Quality Control	%	1	5%	2			8																											
6b.9	Supervision	%	1	5%	2			3																											
		6. Drainage Plans Total						34																											

SURVEY, SUE, & UTILITY COORDINATION SCOPE & FEE

Michael A. Holt, P.E.
Engineer II
Patel, Greene & Associates, LLC
12570 Telecom Drive
Temple Terrace, FL 33637

December 1, 2022

RE: Stonewood Subdivision

Dear Mr. Holt,

CivilSurv Design Group, Inc. is pleased to submit this proposal for surveying and mapping services and utility coordination services required for this project. We look forward to working with PGA and the County towards the successful completion of this project.

Scope of Services

CivilSurv Design Group, Inc. will:

- 1) Complete the design survey for the area defined in the exhibits titled "Proposed Stonewood Drainage Improvement.pdf". The limits of the survey are 10 feet outside the existing platted right of way along the approximate 1,840 feet roadways of the project. The scope of this work will include placing project control points and benchmarks on NAVD 1988 and the latest state plane grid, the collection of ground lines and features including all drainage pipes and inverts, suitable for creation of a 3D ground model as the design survey.
- 2) Locate existing property corners to establish the existing right of way through the project limits.
- 3) Provide Subsurface Utility Investigations Levels A, B, C and D and Utility Coordination Services along with utility constructability reviews for the perceived conflicts.

Deliverables:

- 1) 3D design survey file (SURVRD01.DGN) which will include Level B SUE designations.
- 2) A signed and sealed Surveyor's Report as required by Standards of Practice for Florida Surveyors and Mappers per Chapter 5J-17, Florida Administrative Code, pursuant to Chapter 472.027, Florida Statutes.
- 3) SUE location Dig Sheets for each utility locate completed (assumed 5 locates).
- 4) Utility locations and markups per utility providers within the corridor at 30%, 60%, 100%, and Final Design including Frontier, Charter Communications, City of Lakeland Electric, City of Lakeland Wastewater and City of Lakeland Water.

Fee:

Design Survey/SUE:	\$14,220
Utility Coordination:	\$ 9,840
Total:	\$24,060

Spread sheet with hours will accompany.

The design survey services can be completed 8 weeks from a notice to proceed.

We appreciate the opportunity to submit this proposal and look forward to working with you on this project. Please call if you have any questions or if you need additional information.

Sincerely,

CivilSurv Design Group, Inc.



Kenneth T. Glass, PSM
Vice President

**Proposed Improvements
Underdrain & Roadway Repair**

- Exist. underdrain
- Prop. underdrain - Significant Pavement Distress
- Prop. underdrain - Moderate Pavement Distress
- Full Depth Pavement Restoration

Severe Degradation is categorized by spiderweb cracking, significant and/or repetitive patching with signs or continuing or accelerated failure.

Moderate Degradation is categorized by significant alligator cracking, with minor patching that does not appear to be repetitive.

Moderate Degradation is categorized by significant alligator cracking, with minor patching that does not appear to be repetitive.

Moderate Degradation

Severe Degradation

Moderate Degradation

Moderate Degradation

STANDARD OF

45 JOURNAL

Signature Car

Continued on 2

Google Earth

Proposal Name: Stonewood Subdivision

Tasks	Principal \$240 per hour		Director \$220 per hour		Sr. Project Mgr. \$180 per hour		Project Manager \$150 per hour		Sr. Associate \$120 per hour		Associate 2 \$95 per hour		3-Person Survey \$165 per hour		Administrative \$75 per hour		CSDG Labor		Reimbursable Expenses	Total				
	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost						
SCOPE OF SERVICES																								
Task 1 - Topographic Design Survey includes Drainage Area	0	\$	-	0	\$	720.00	0	\$	-	8	\$	720.00	20	\$	1,900.00	40	\$	5,800.00	0	\$	-	70	\$	9,940.00
Task 2 - SUE Level A & B	0	\$	-	0	\$	360.00	0	\$	-	2	\$	360.00	20	\$	3,300.00	0	\$	-	28	\$	4,280.00	0	\$	-
Task 3 - Utility Coordination	0	\$	-	0	\$	720.00	0	\$	-	76	\$	9,120.00	0	\$	-	0	\$	-	80	\$	9,840.00	0	\$	-
Total	0	\$	-	0	\$	1,800.00	0	\$	-	84	\$	10,080.00	24	\$	2,280.00	60	\$	9,900.00	0	\$	-	178	\$	24,060.00
Subconsultant																								
Total Estimated Cost	0	\$	-	0	\$	1,800.00	0	\$	-	84	\$	10,080.00	24	\$	2,280.00	60	\$	9,900.00	0	\$	-	178	\$	24,060.00

Staffing
Principal -
Director -
Sr. Project Mgr. -
Project Mgr. -
Sr. Associate -
Associate 2 -
Admin -

EXHIBIT A
FEE SCHEDULE

Job Classification	Hourly Rate
Administrative Assistant	\$15.00
Associate 1	\$15.00
Associate 2	\$95.00
Sr. Associate	\$120.00
Project Manager	\$150.00
Sr. Project Manager	\$180.00
Director	\$220.00
Principal	\$240.00
Sr. Principal / Expert Witness	\$300.00
Survey Crew	\$165.00
Survey Crew with NOT	\$210.00
SUE Designating Crew	\$190.00
SUE Location/OTR Crew	\$275.00

Effective April 14, 2020

GEOTECHNICAL SCOPE AND FEE

Geotechnical Investigation

The CONSULTANT shall provide the geotechnical investigations and laboratory testing for the drainage improvement study in general accordance with FDOT standards.

1. Field Investigation - Roadway

The work shall include the following:

1. Complete six (6) 5-foot hand auger borings adjacent to areas of concern.
2. Complete four (4) 15-foot Standard Penetration Test (SPT) borings.
3. Soil Samples will be classified and stratified in accordance with AASHTO soil classification system. Soil samples for laboratory soil testing will be obtained in general accordance with FDOT Soils and Foundation Handbook.
4. U.S.G.S. and N.R.C.S. maps, historical aerials and readily available published geologic information will be used to identify areas of deleterious soils and reported Seasonal High Groundwater Table (SHGWT) information.

2. Laboratory Testing

All laboratory testing will be performed in accordance with Florida Sampling and Testing Methods or ASTM or by latest directives. Laboratory testing will include the following as required by the needs of the project.

Organic Content
Moisture Content
Particle Size Analysis
Atterberg Limits
Corrosion Series

3. Geotechnical Report

The Geotechnical Report shall include:

1. Copies of U.S.G.S. and N.R.C.S. maps with project limits shown.
2. A report which summarizes the laboratory test results, the soil stratifications, (i.e., soils grouped into layers of similar materials) and geotechnical evaluations.
3. A description of the site and subsoil conditions and discussion of any special considerations (i.e., unsuitable materials, historic seasonal high groundwater, and confining layer).
4. An appendix which contains stratified soil boring profiles, laboratory test data sheets, and any other pertinent information.

**Test Lab Inc.
Fee Schedule**

Item #	Item Description	Unit	No. of Units x	Cost Per Unit =	Total Fees
DRILLING AND FIELD TESTING SERVICES - TEST LAB, INC.					
211	211-Asphalt Pavement Coring - 6" dia with Base Depth Check	Test	13	\$125.00	\$1,625.00
415	Geo Double Ring Infiltration ASTM3385	Each	3	\$600.00	\$1,800.00
603	603-Mobilization Asphalt Coring Equipment	Each	1	\$357.62	\$357.62
MAINTENANCE OF TRAFFIC (MOT) SERVICES - ROADSAFE TRAFFIC SYSTEMS, INC.					
706	MOT Portable Sign	Each	1	\$125.00	\$125.00
708	MOT Provide Channelizing Devices – Cone	Each	5	\$5.00	\$25.00
ENGINEERING AND SUPPORT SERVICES - TEST LAB, INC.					
	Senior Geotechnical Engineer	Hour	4	\$154.80	\$619.20
	Secretary/Clerical	Hour	2	\$61.33	\$122.66
	MAT CAD Computer Technician	Hour	5	\$103.19	\$515.95
	Geotechnical Technician	Hour	8	\$55.96	\$447.68
	Engineering Intern	Hour	8	\$81.08	\$648.64
	Designer Associate	Hour	5	\$67.46	\$337.30

Project Geotechnical Services Estimated Total: \$6,474.05

Fee Schedule Breakdown

Total Staff Hours	32
Drilling Services	58%
Lab Services	0%
Engineering Services	42%

PIPE VIDEO INSPECTION SCOPE & FEE



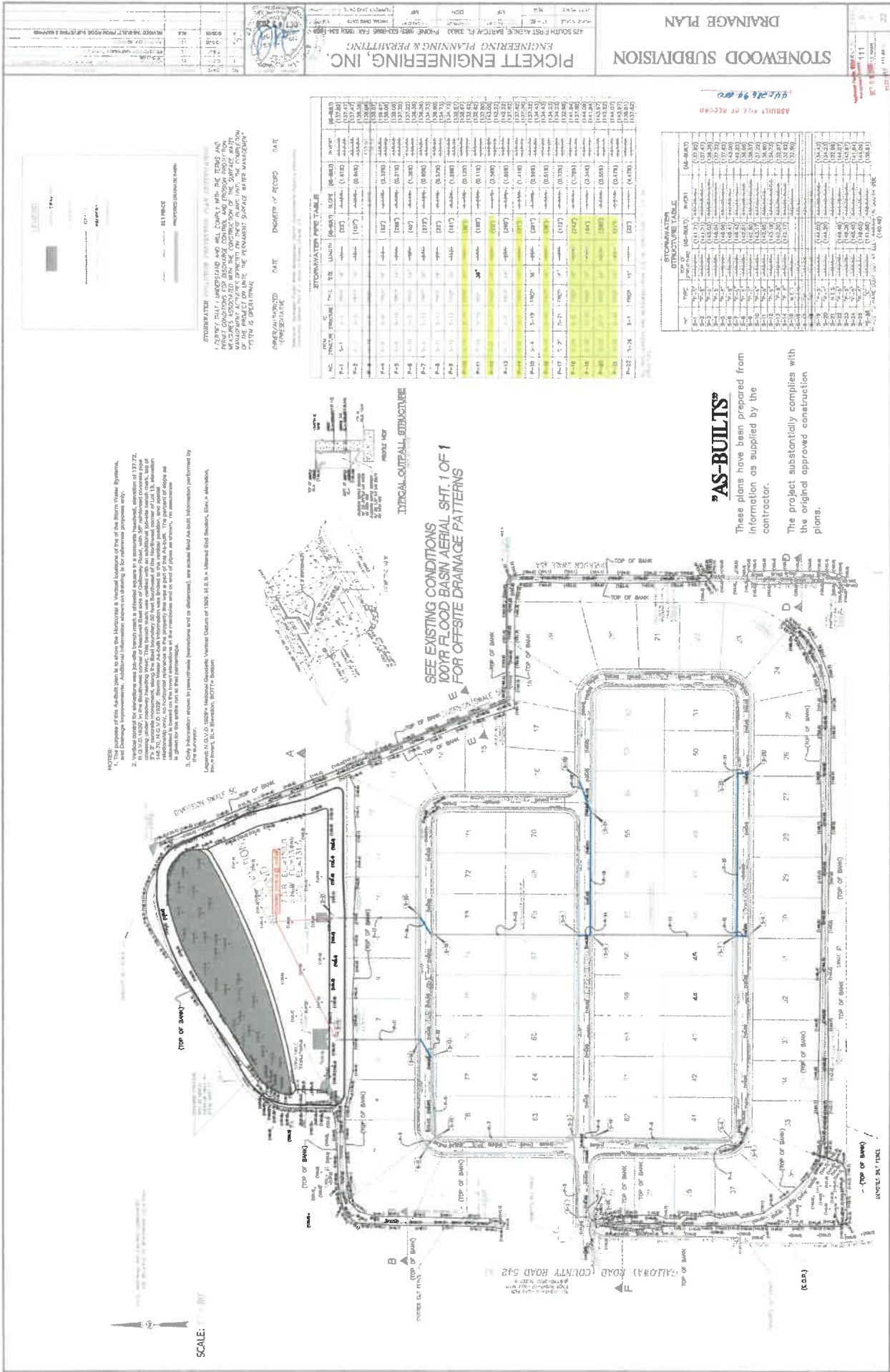
To:	Patel, Greene, & Associates	Contact:	Michael A. Holt, P.E.
Address:	555 West Main Street	Phone:	(863) 533-7317
		Email:	Michael.Holt@patelgreene.com
Project Name:	FL - Polk County - Stormwater Cont. Services	Bid Number:	2218016
Project Location:		Bid Date:	12/19/2022

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Mobilization - Cleaning / CCTV Crew	1.00	EACH	\$2,750.00	\$2,750.00
2	Cleaning / CCTV 18" Storm Pipe	329.00	LF	\$8.00	\$2,632.00
3	Cleaning / CCTV 24" Storm Pipe	362.00	LF	\$9.00	\$3,258.00
4	Cleaning / CCTV 30" Storm Pipe	39.00	LF	\$15.00	\$585.00
5	Cleaning / CCTV 36" Storm Pipe	39.00	LF	\$17.00	\$663.00

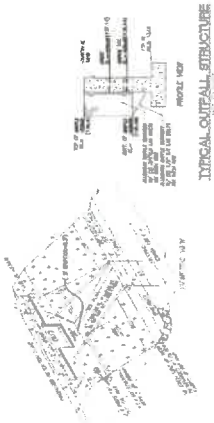
Total Bid Price: \$9,888.00

Notes:

- Proposal includes standard dewatering for 2" of flow or less. Any additional dewatering / bypass / or flow control beyond these efforts or greater than 200 GPM will be provided by Others.
- Proposal includes standard signs and cones. Any additional maintenance of traffic (MOT) needed will be provided by Others.
- Owner will provide a local area and pay disposal fees to dispose the debris that is pulled from the cleaning process after it is decanted. Disposal site must be less than 10 miles away from job site.
- Owner will provide access to each and every manhole and or structure. This may include but not limited locating, exposing, and raising buried MH's prior to our crew mobilizing.
- If necessary, Owner will provide Permits & Fees. Vortex will provide our standard insurance coverage. OCP or railroad insurance & or longshoreman insurance is not included.
- Water used to clean pipe segment or box culvert to be decanted in the pipe segment or adjacent pipe/outfall area. Vortex plans on using a floating turbidity barrier at the outfall.
- Mechanical Cleaning / Tuberculation removal not included in bid proposal.
- If bond is needed please add 1.5%.
- Our Bid Proposal is valid for 30 days from the bid date.
- This is a unit priced contract and the actual billing will be based on installed quantities. If the installed quantities vary greater than 10% of the bid quantities, Vortex reserves the right to adjust our unit price accordingly.
- Existing pipe cleaning is defined as 15% full of debris or less. If additional passes are required or any mechanical / descaling / root / grease / or tuberculation removal, Vortex will charge an additional fee at an hourly rate of \$245.00/Hr for the Vac Truck + Operator and \$225.00/Hr for the CCTV Truck + Operator.
- Standard wages are included. Therefore, Prevailing wages and or Union Wage Rates are not included in this bid proposal.
- Our bid proposal as submitted reflects the current material pricing established on or before the bid date listed within our proposal. In the event of unforeseen price increases of our raw materials, Vortex reserves the right to adjust our unit rate or overall bid proposal accordingly to account for such price increases.
- Payment will be made within 30 days of receipt of payment by owner to the GC for the associated invoice.
- 7% Material Sales Tax is included in our bid proposal. If the owner is exempt, we will need them to provide an exemption certificate prior to contract execution. Service Tax is not included. If required, it will be invoiced separately.
- Vortex's bid proposal shall be incorporated into the subcontract agreements. Vortex will initiate this project upon an agreement or receipt of a subcontract or purchase order. Copies of payment and performance bonds must be provided to Vortex.



- NOTES:
1. The Drainage System is shown in the Hydrologic Analysis of the Storm Water System.
 2. Vertical control for structures was obtained from a standard benchmark, elevation of 137.72. If 137.72 is not the benchmark, the elevation of the structure must be checked against the benchmark. The elevation of the structure must be checked against the benchmark. The elevation of the structure must be checked against the benchmark.
 3. Only information shown for structures (foundations and details) are actual field as-built information performed by the surveyor.



SEE EXISTING CONDITIONS
100' x 100' FLOOD BASIN AERIAL SHT. 1 OF 1
FOR OFFSITE DRAINAGE PATTERNS

"AS-BUILTS"

These plans have been prepared from information as supplied by the contractor.

The project substantially complies with the original approved construction plans.

STORMWATER PIPE TABLE									
NO.	TYPE	SIZE	LENGTH	START	END	START	END	START	END
1	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
2	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
3	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
4	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
5	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
6	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
7	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
8	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
9	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
10	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72

STORMWATER PIPE TABLE									
NO.	TYPE	SIZE	LENGTH	START	END	START	END	START	END
1	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
2	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
3	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
4	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
5	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
6	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
7	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
8	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
9	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72
10	12"	12"	100'	137.72	137.72	137.72	137.72	137.72	137.72

STONEMOOD SUBDIVISION

DRAINAGE PLAN

PICKETT ENGINEERING, INC.
ENGINEERING PLANNING & PERMITTING
425 SOUTH FIRST AVE. SUITE 200, RICHMOND, VA 23219
PHONE (804) 622-8888 FAX (804) 622-8889

PROJECT: STONEMOOD SUBDIVISION
SHEET: 1 OF 1
DATE: 11/11/11
BY: [Signature]



Patel, Greene and Associates, LLC

Exhibit B

Patel, Greene and Associates, LLC – Loaded Billing Rates

Overhead	Direct Labor	OM	FCCM	Exp	Total Multiplier
164.71%	100.00%	40.00%	0.638%	0.38%	305.728%

Classification	Raw Rate Range	Billing Rate Range
CEI Senior Project Engineer	\$73.08	\$223.43
CEI Senior Project Engineer - Average Hourly Rate	\$73.08	\$223.43
Chief Designer	\$35.00 - \$57.69	\$107.00 - \$176.37
Chief Designer - Average Hourly Rate	\$51.67	\$157.97
Chief Engineer 1	\$67.00 - \$88.00	\$204.84 - \$269.04
Chief Engineer 1 - Average Hourly Rate	\$80.20	\$245.19
Chief Engineer 2	\$77.75 - \$85.00	\$237.70 - \$259.87
Chief Engineer 2 - Average Hourly Rate	\$79.45	\$242.90
Chief Scientist	\$55.00	\$168.15
Chief Scientist - Average Hourly Rate	\$55.00	\$168.15
Contract Coordinator	\$35.10 - \$53.00	\$107.31 - \$162.04
Contract Coordinator - Average Hourly Rate	\$41.55	\$127.03
Engineer 1	\$48.50 - \$53.00	\$148.28 - \$162.04
Engineer 1 - Average Hourly Rate	\$50.14	\$153.29
Engineer 2	\$50.00 - \$76.00	\$152.86 - \$232.35
Engineer 2 - Average Hourly Rate	\$66.05	\$201.93
Engineering Intern	\$30.00 - \$40.50	\$91.72 - \$123.82
Engineering Intern - Average Hourly Rate	\$35.92	\$109.82
Engineering Technician	\$30.50	\$93.25
Engineering Technician - Average Hourly Rate	\$30.50	\$93.25
Environmental Specialist	\$25.50	\$77.96
Environmental Specialist - Average Hourly Rate	\$25.50	\$77.96
Graphic Designer	\$27.50	\$84.08
Graphic Designer - Average Hourly Rate	\$27.50	\$84.08
Landscape Designer	\$31.25	\$95.54
Landscape Designer - Average Hourly Rate	\$31.25	\$95.54



Patel, Greene and Associates, LLC

Patel, Greene and Associates, LLC – Loaded Billing Rates

Overhead	Direct Labor	OM	FCCM	Exp	Total Multiplier
164.71%	100.00%	40.00%	0.638%	0.38%	305.728%

Classification	Raw Rate Range	Billing Rate Range
Planner	\$36.50	\$111.59
Planner - Average Hourly Rate	\$36.50	\$111.59
Project Manager 3	\$75.96	\$232.23
Project Manager 3 - Average Hourly Rate	\$75.96	\$232.23
Secretary/Clerical	\$15.00 - \$19.00	\$45.86 - \$58.09
Secretary/Clerical - Average Hourly Rate	\$17.00	\$51.97
Senior Designer	\$44.00	\$134.52
Senior Designer - Average Hourly Rate	\$44.00	\$134.52
Senior Engineer 1	\$62.98 - \$80.00	\$192.55 - \$244.58
Senior Engineer 1 - Average Hourly Rate	\$74.40	\$227.46
Senior Engineering Technician	\$25.00 - \$30.00	\$66.30 - \$91.72
Senior Engineering Technician - Average Hourly Rate	\$27.50	\$84.08
Senior Environmental Specialist	\$45.00	\$137.58
Senior Environmental Specialist - Average Hourly Rate	\$45.00	\$137.58
Senior Landscape Architect	\$52.50	\$160.51
Senior Landscape Architect - Average Hourly Rate	\$52.50	\$160.51
Senior Planner	\$61.00	\$186.49
Senior Planner - Average Hourly Rate	\$61.00	\$186.49
Technician Aid	\$15.00 - \$17.50	\$45.86 - \$53.50
Technician Aid - Average Hourly Rate	\$16.25	\$49.68

Fran McAskill
Director
Procurement Division



330 West Church Street
P.O. Box 9005, Drawer AS05
Bartow, Florida 33831-9005
Phone: (863) 534-6757
Fax: (863) 534-6789
www.polk-county.net

EXHIBIT C

Board of County Commissioners

REIMBURSABLE COST SCHEDULE

1. Reproduction Cost
 - A. Regular Copying Single Side Double Sided

8 ½ x 11 (black & white).....	\$ 0.15/page	\$ 0.25/sheet
8 ½ x 11 (color).....	\$ 0.30/page	\$ 0.40/sheet
8 ½ x 14 (black & white).....	\$ 0.15/page	\$ 0.25/sheet
8 ½ x 14 (color).....	\$ 0.30/page	\$ 0.40/sheet
11 x 17 (black & white).....	\$ 0.25/page	\$ 0.35/sheet
11 x 17 (color).....	\$ 0.40/page	\$ 0.50/sheet
9 ½ x 24 Single Side Only.....	\$ 1.00/page	
17 x 22 Single Side Only.....	\$ 2.00/page	
18 x 24 Single Side Only.....	\$ 2.00/page	
24 x 36 Single Side Only.....	\$ 3.00/page	
30 x 30 Single Side Only.....	\$ 5.00/page	
32 x 34 Single Side Only.....	\$ 5.00/page	
Other sizes-per square inch.....	\$ 0.03/page	
Compact Digital Disk	\$ 6.00/disk	
 - B. Blueprint Copy..... \$10.00/page
2. Subcontractor Services Actual Costs
3. Special Consultants Actual costs
4. Computer Services Non-reimbursable
5. Travel Expenses In accordance with Chapter 112.061, F.S.;
and further defined in the Polk County Employee Handbook.
6. Postage, Fed Express, UPS Actual Costs
7. Pre-approved Equipment
(includes purchase and rental of equipment used in project) Actual Costs