



HILLERS ELECTRICAL ENGINEERING, INC.

October 28, 2019

Ms. Shannon LaRocque, PE
Utility Director
Village of Wellington
12300 Forest Hill Blvd
Wellington, FL 33414

Subject: Village of Wellington RO Wells R4, R6, R7, R8, R9 and R10 Fiber Optic System
As-Built

Dear Shannon:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide the Village of Wellington (Village) this proposal for professional engineering services for the above referenced project. The Village desires to acquire as-built documentation of the existing fiber optic communications system presently in place from the existing RO Plant 1 control room to existing Wells R4, R6, R7, R8, R9 and R10. The purpose of the as-built documentation is for Village Staff use in troubleshooting interruptions in communications from the plant control system to each well. The Village desires to determine the underground routing of the existing fiber optic cable, and raceway, from the RO Plant 1 control room to each well and to document how the fiber is terminated/connected in the control room and at each well. To assist with the underground fiber routing investigation, HEE will engage the assistance of Wantman Group Inc. (WGI) to perform Professional Survey and Subsurface Utility Engineering (SUE) Services. HEE will perform investigation of the exposed fiber conductors at the control room and at each well. A proposal of professional services for this project from WGI is attached delineating their scope of services.

Specifically, WGI will perform the following:

- Provide ASCE 38-02 Quality Level B (QLB) investigation (utility designates) of the Fiber Optic Line (FOL) originating in Building RO1 that connects to the six (6) wells list above and terminating at well R10.
- Provide ASCE 38-02 Quality Level B investigation (utility designates) of the existing utilities within the corridor of the Fiber Optic Line (FOL) specified above.
- Prepare a survey of the existing Fiber Optic Line (FOL) from the Control Room, located inside Building RO1, routed through the plant to the north where exiting and proceeding east along South Rambling Drive where it connects to well R4 and proceeds to the North/South FPL transmission line, approximately 200 feet west of the C-8 Canal. The FOL then proceeds south along the transmission line and connects to wells R4 through R9 and to Well R10 located approximately 100 feet north of Forest Hill Blvd.
- Above ground mapping beginning at the northeast corner of the WTP and terminating at Well R10 consisting of roadways/pathways, overhead wires, guardrails, nearest canal top of bank (within 30 feet of the FOL), as well as all improvements located

within of each well site and any crossing utilities.

- Survey the QLB designated Fiber Optic Line (FOL), utilities within the 30 foot corridor, the well locations and improvements and prepare an AutoCAD deliverable tied to the survey control identified on the boundary and topographic survey prepared by Engenuity Group, Inc. as provided by the Village, and a Google Earth KMZ of the fieldwork as well as a signed and sealed Surveyor's Report detailing the process of the survey. Approximate parcel lines from county GIS database will be shown for reference.

HEE will perform the following:

- Attend Kick-off meeting with Village.
- Visit well sites for R4, R6, R7, R8, R9 and R10 to investigate how the fiber optic cables enter the well control panels and document routing, terminations and equipment the fiber is connected to within each panel. The investigation is for the fiber cable only and will end at a media convertor, PLC card, or other solid state device used to convert the optical signal.
- Prepare a control system block diagram of the fiber optic system routing from the control room to each well depicting the devices and configuration of the connections at each location for Village personnel use in troubleshooting the system.
- Prepare electrical site plan(s) depicting the routing of the fiber optic cable using the survey data and AutoCAD files prepared by WGI for inclusion in an overall fiber optic as-built package for delivery to the Village.

Anticipated Drawing List:

Project Cover Sheet (1 sheet)

Legend and Symbols/General Notes (1 sheet)

Control System Block Diagram (Up to 2 sheets)

Fiber Optic Line Electrical Site Plans (Up to 10 sheets)

Anticipated Project Schedule:

Field Research: Duration: 60 days after notice to proceed.

Draft document submittal: 60 days after completion of field research.

Draft document review: 10 days after draft document submittal.

Final document submittal: 21 days after draft document review meeting.

Assumptions:

1. Village will furnish all available as-built documents, if available, for the fiber optic cable and routing.
2. No physical modifications to any panel, wiring, or software will be performed under this scope of work.
3. The fiber optic system will be documented to the last point of termination at each location (control room/well). Documenting of the remainder of the well control panel, or control room control system, is not included in the scope of services of this proposal.
4. The Village will provide access to Village facilities for HEE/WGI with reasonable prior notice.

Ms. Shannon LaRocque, PE

Subject: Village of Wellington PLC Replacement Design and Bidding Phase Services-Booster Stations 1 and 2 and Wells
29/30

5. Vacuum excavation (ASCE 38-02 Quality Level A) is not included.
6. Utility records research is not included – to be provided by Village.
7. Some lines of occupation may be located to determine property lines however this proposal does not include/constitute a boundary survey. Approximate parcel lines from county data may be shown for reference but should not be relied upon. Monuments will not be set.
8. Permits and permit fees, if needed, are not included and are the responsibility of the Village.
9. Select backfill material, flowable fill or other material not included.
10. Traffic control, lane closures, off duty police not included.

Our Proposed Lump Sum Engineering Fee is:

\$33,460.00

HEE wishes to thank the Village for the opportunity to assist with this project. Please do not hesitate to call me if you have any questions regarding this proposal or any other related matter.

Sincerely,



Mark E. Luther, PE
MEL/mel

Attachment

HEE/Proposal/Wellington/Village of Wellington RO Wells R4, R6, R7, R8, R9, R10 Fiber Optic Investigation.doc

Village of Wellington Utilities RO Wells R4, R6, R7, R8, R9 and R10 Fiber Optic Investigation
Village of Wellington Utilities
HILLERS ELECTRICAL ENGINEERING, INC.
Scope Fee Breakdown -Design Services
Date: 10/28/19

Rate	\$225.00	\$192.00	\$153.00	\$147.00	\$129.00	\$90.00	\$81.00	\$138.00	\$78.00				
	Principle	Chief Engineer	Project Manager	Professional Engineer	Lead Engineer	Designer	CADD Technician	Construction Coordinator	Administrative Assistant	Total Task	Subconsultant	SUBTOTAL	TASK TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Cost	Cost	Cost
Subconsultant WGI Surveying											\$19,300.00		\$19,300.00
Contract Administration			10						5	10		\$1,920.00	\$1,920.00
Site Investigation													\$4,431.00
RO1 Control Room		1		3						4		\$633.00	
Well R4		1		3						4		\$633.00	
Well R6		1		3						4		\$633.00	
Well R7		1		3						4		\$633.00	
Well R8		1		3						4		\$633.00	
Well R9		1		3						4		\$633.00	
Well R10		1		3						4		\$633.00	
Prepare Draft Documents													\$5,127.00
Engineering		3		12			18		4	33		\$4,110.00	
Draft Document Review Meeting		3		3						6		\$1,017.00	
Prepare Final Documents													
Engineering		2		8			10		4	20		\$2,682.00	\$2,682.00
Subconsultant Cost											\$19,300.00		
HEE Lump Sum Totals		15	10	44			28		13	97			
<i>HEE Cost by Labor Rate</i>		\$2,880.00	\$1,530.00	\$6,468.00			\$2,268.00		\$1,014.00			\$14,160.00	
<i>Proposal Total</i>													\$33,460.00



October 22, 2019

Mark E. Luther, PE
Chief Electrical Engineer
Hillers Electrical Engineering
23257 State Road 7, Suite 100
Boca Raton, FL 33428

Attn: Mark E. Luther, PE
mluther@hillersee.com

Re: Professional Survey & Subsurface Utility Engineering (SUE) Services for the Fiber Optic System As-built, Village of Wellington, FL

Dear Mr. Luther,

Wantman Group, Inc. (WGI) is pleased to provide this proposal to Hillers electrical Engineering for professional services on the above referenced project. Our scope of services and corresponding fees are detailed below. In addition, it is agreed that WGI's services will be performed pursuant to the original contract between WGI and the Village of Wellington, dated February 3, 2016.

PROJECT UNDERSTANDING

WGI shall provide Survey & SUE services as detailed below, in areas shown in attached Exhibit A, within the Village of Wellington, Florida.

BASIS OF SCOPE

1. WGI proposes to provide ASCE 38-02 Quality Level B investigation (utility designates) of the Fiber Optic Line (FOL) originating in Building RO1 – connecting 6 wells and terminating at well R10 (Exhibit A).
2. WGI proposes to provide ASCE 38-02 Quality Level B investigation (utility designates) of the existing utilities within the corridor of the Fiber Optic Line (FOL) specified in point 1.
3. Geophysical designating techniques, although highly reliable, are subject to outside interference with are beyond the control of WGI, and may impede the effectiveness of subsurface utility investigations. Soil conditions, utility materials, size, depth, salt water and conductivity may prevent the location of some subsurface utilities. WGI utilizes state of the art equipment and methodology during all phases of utility investigations, but no guarantee is hereby expressed that all facilities will be detected.
4. Prepare a Survey of the existing Fiber Optic Line (FOL) from RO1 at the Wellington Water Treatment Plant (WTP) (1100 Wellington Trace) located inside the Control Room and traveling along the South Rambling Drive going east to the North/South FPL transmission line, being approximately 200 feet west of the C-8 Canal to Well R10 located approximately 100 feet north of Forest Hill Blvd. in accordance with Rule 5J-17, Florida Administrative Code, pursuant to Chapter 472.027 of the Florida Statutes.
5. The above ground mapping will begin at the northeast corner of the WTP and terminate at Well R10 and will consist of roadways/pathways, overhead wires, guardrails, nearest canal top of bank within 30 feet of the FOL, as well as all improvements located within of each well site and any crossing utilities.
6. CLIENT shall facilitate access for WGI field staff.
7. The survey is for horizontal data only. Vertical data will not be collected.

Village of Wellington

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- 8. The location of storm and sanitary structures are only verified at the manhole or catch basin structure if visible & if attainable.
- 9. Basic work zone safety includes safety road signs and traffic cones.

EXCLUSIONS

- 1. Vacuum excavation (ASCE 38-02 Quality Level A) is not included.
- 2. Utility records research is not included – to be provided by others.
- 3. Some lines of occupation may be located to determine property lines however this proposal does not constitute a boundary survey. Approximate parcel lines from county data may be shown for reference but should not be relied upon. Monumentation will not be set.
- 4. Permits and permit fees, if needed, are not included and are the responsibility of the CLIENT.
- 5. Select backfill material, flowable fill or other material not included.
- 6. Traffic control, lane closures, off duty police not included.

DELIVERABLES

- 1. WGI will survey the QLB designated Fiber Optic Line (FOL), utilities within the 30 foot corridor, the well locations and improvements and prepare an AutoCAD deliverable tied to the survey control identified on the boundary and topographic survey prepared by Engenuity Group, Inc. as provided by the CLIENT, and a Google Earth KMZ of the fieldwork as well as a signed and sealed Surveyor’s Report detailing the process of the survey.
- 2. Approximate parcel lines from county GIS database will be shown for reference.

SCOPE OF SURVEY & SUE SERVICES

Task I– Survey & Mapping of Above Ground Improvements.....Lump Sum Fee \$9,250.00

WGI will provide survey and above ground mapping beginning at the northeast corner of the WTP and terminating at Well R10 and will consist of roadways/pathways, overhead wires, guardrails, nearest canal top of bank within 30 feet of the FOL.

Task II – Utility Designates (Quality Level B) & Well Locations.....Lump Sum Fee \$10,050.00

WGI will provide an ASCE 38-02 Quality Level B utility investigation, in order to determine the horizontal location of Fiber Optic Line (FOL) originating in Building RO1 – connecting 6 wells and terminating at well R10 (Exhibit A), including locating and mapping improvements within each well site and any crossing utilities within 30 feet of the FOL. This includes direct induction of toneable subsurface utility facilities from surface accessible features, and Ground Penetrating Radar sweep for non-toneable facilities. Mark and label detected facilities with a Water Based Paint; flags on soft ground and washable chalk on hard surfaces.

Total Lump Sum Fee for Tasks I & II \$19,300.00

Any additional optional services requested by CLIENT will be provided in accordance with WGI’s hourly fee schedule in effect at the time of service, or a fixed fee to be negotiated once a scope of service is defined.

We appreciate the opportunity to be of service to **Village of Wellington**. Upon acceptance of this proposal, along with the attached Agreement Provisions and our current Fee Schedule, please sign and return an executed copy to this office. Please note that the Agreement Provisions are an integral part of



Village of Wellington

October 22, 2019

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this contract, are hereby incorporated by reference, and are controlling unless both parties expressly waive them in writing prior to commencement of work. By executing this Proposal, CLIENT expressly agrees to be bound by the Agreement Provisions and the enclosed Fee Schedule. Further, and whether this proposal is executed or not, the ordering of, acceptance of, or reliance on services performed by WGI constitutes acceptance of the attached Agreement Provisions.

Respectfully submitted,

WGI



R. Mark Pitchford, PSM
Area Manager

Radek Grabowski
SUE Project Manager

CLIENT'S CORPORATE ATTESTATION: If signing this Proposal on behalf of a corporate entity, I hereby affirm that such entity is correctly identified above, and is legally valid, active, and duly licensed and authorized to conduct business in the State of Florida. I also affirm that I am duly authorized and have legal capacity to execute this Proposal and bind the corporate entity.

AUTHORIZATION FOR CREDIT CHECK: By signing this Proposal, I hereby authorize WGI to conduct a credit check or obtain a credit report with respect to CLIENT (as identified in this Proposal) for purposes of WGI providing services to CLIENT.

Corporate Representative:

Name (Printed)

This Proposal accepted this ____ day of _____, 2019

By _____
Name (Signature)
Village of Wellington

