

RESOLUTION NO. 2019- 563

A RESOLUTION AUTHORIZING A PROFESSIONAL SERVICE AGREEMENT WITH REMINGTON AND VERNICK, HADDONFIELD, NJ, FOR PHASE THREE - ENGINEERING SERVICES TO GPS FIELD LOCATE CITY AND PRIVATE FIRE HYDRANTS AND FIRE HYDRANT VALVES.

WHEREAS, the City Council of the City of Vineland has adopted Resolution No. 2019-52, a Resolution pre-qualifying certain firms to submit proposals for as needed Architectural and Engineering Services; and

WHEREAS, the Director of Municipal Utilities received a proposal for Phase Three – Engineering Services to GPS field locate city and private fire hydrants and fire hydrant valves as required per New Jersey Water Quality Accountability Act; and

WHEREAS, the Director of Municipal Utilities has recommended that a contract for the required services be awarded to Remington and Vernick, Haddonfield, NJ, based upon the proposal received, pursuant to a fair and open process; and

WHEREAS this contract is awarded in an amount not to exceed \$30,000.00; and

WHEREAS, the availability of funds for said Professional Services Contract to be awarded herein have been certified by the Chief Financial Officer; and

WHEREAS, the Local Public Contract Law (N.J.S.A. 40A:11-1, et seq) requires that the Resolution authorizing the award of contract for Professional Services without competitive bidding and the contract itself must be available for public inspection.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Vineland that said contract for Professional Services for Phase Three –Engineering Services to GPS field locate city and private fire hydrants and fire hydrant valves as required per the New Jersey Water Quality Accountability Act, be awarded to Remington and Vernick, Haddonfield, NJ, based upon the proposal received, pursuant to a fair and open process, in the amount not to exceed \$30,000.00.

Adopted:

President of Council

ATTEST:

Deputy City Clerk

**REQUEST FOR RESOLUTION FOR CONTRACT AWARDS
UNDER 40A:11-5 EXCEPTIONS
(PROFESSIONAL SERVICES, EUS, SOFTWARE MAINTENANCE, ETC)**



12-6-19
(DATE)

1. Service (detailed description): Engineering Service - GPS Field locate
City + Private Fire Hydrants + Fire Hydrant Valves

2. Amount to be Awarded: \$ 30,000⁰⁰

- Encumber Total Award
- Encumber by Supplemental Release

3. Amount Budgeted: \$ _____

4. Budgeted: By Ordinance No. _____
Or Grant: Title & Year _____

5. **Account Number to be Charged: 9-07-55-502-8013-53044

6. Contract Period: _____

7. Date To Be Awarded: 12-23-19

8. Recommended Vendor and Address: Remington + Vernick Engineers
232 Kings Highway Haddonfield NJ 08033

9. Justification for Vendor Recommendation: (attach add'l information for Council review)
Continuation of Existing Project

- Non-Fair & Open (Pay-to-Play documents required)
- Fair & Open: How was RFP advertised? _____

10. Evaluation Performed by: Sharon Lillie

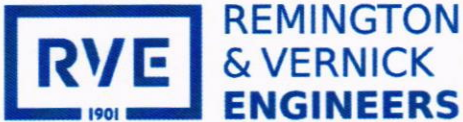
11. Approved by: Jahn Lello

12. Attachments:

- Awarding Proposal
- Other: Scope + Proposal

- Send copies to:
Purchasing Department
Business Administration

** If more than one account #, provide break down



RVE HQ:
232 Kings Highway East
Haddonfield, NJ 08033
O: (856) 795-9595
F: (856) 795-1882

December 5, 2019

Sharon Lillie

City of Vineland Municipal Water Utility
330 E. Walnut Road
Vineland, New Jersey 08360

Subj: Phase Three-Professional Engineering Services to GPS field locate/data collect the City/Private Fire Hydrants and Fire Hydrant Valves as Required by the New Jersey Water Quality Accountability Act for the City of Vineland Water Utility

Dear Ms. Lillie:

REMINGTON & VERNICK ENGINEERS (RVE) is pleased to present this proposal to provide professional engineering services to GPS field locate/data collect the City/Private fire hydrants and fire hydrant valves. This is required in order to update the City of Vineland Municipal Water Utility's existing water main Geographic Information System (GIS) shapefiles on their GIS Water Utility Infrastructure System Mapping for the City's municipal water supply system. RVE's proposed services will include mapping grade GPS data collecting the existing fire hydrants and fire hydrant valves as required per the New Jersey Water Quality Accountability Act (WQAA).

It is RVE's understanding that the City currently has a Fire Hydrant inventory map from its GIS shape file/schema that will be utilized as reference to coordinate the GPS data collection field work to be in compliance with the NJ WQAA asset management planning requirements. The Vineland City MWU will provide their current fire hydrant layer to RVE. We will also utilize the provided "City of Vineland GIS Data Export Hydrant Valves as of 12-02-19.xlsx" and the "Wachs Valve GIS Import Data field Mappings.xlsx" electronic index Excel spread sheet table to all of the City assets for the water system as a data element in the schema for this project. RVE will build out the Hydrant Valve layer according to this Vineland City MWU schema.

Scope of Services

RVE will perform the entire scope of services outlined herein to GPS field locate/data collect the City/Private fire hydrants and fire hydrant valves in order to revise/update the City of Vineland's existing digital Water Main GIS Shapefiles and Geodatabase Mapping. RVE understands that the City of Vineland Water Utility is in need of this mapping for NJ Water Quality Accountability Act (WQAA) compliance. The GPS date, GPS Coordinates and matching existing Hydrant Number will be field collected and the layer provided back to us to replace our existing empty Hydrant valve layer. The other fields pertaining to exercising the hydrant valve will be empty pending the outcome of WQAA decision to mandate exercising. The summary of RVE's proposed services is shown below. A detailed scope of technical services is outlined in Appendix A.

GIS Document Collection and Mapping

The City of Vineland Municipal Water Utility's (Water Utility) existing Water System Mapping was digitally generated, utilizing AutoCAD and then converted into a GIS geodatabase using Esri software applications in

2000 and last revised in 2019 by the Water Utility. The existing map displays water mains with size labeled, elevated water storage tank(s) with capacity labeled, wells-pump house, line valves and fire hydrants with valves throughout the Water Utility's water supply and distribution system. All street and as-built information on the map reflect 2019 conditions. This existing Water System Map will be utilized as reference for the newly updated GIS Water Utility Infrastructure System Mapping (see attached).

This data will be exported and utilized in a GIS mapping database layered to display and query water utility infrastructure locations within the City. RVE can also provide options for future data layers for use by the Department of Engineering, including New Jersey Department of Environmental Protection (NJDEP) overlays, such as wetlands, flood prone areas and soil classifications, as well as any available Cumberland County GIS Resources, which can also be exported and utilized, as a layer, in the CADD mapping drawing file, for use by the City.

Any survey field collection services, if applicable, and all GIS utility mapping work needs to be completed under the auspices of a NJ Professional Licensed Land Surveyor and in accordance with the current State regulations and standards for the "Locations of Existing Utilities" statutes, NJSA 45:8-28(e); NJAC 13:40-1.3; NJAC 13:40-5.1(g)4, as well as the NJ Digital Mapping Computer Aided Drafting (CAD) Standards and comply with any of the Vineland Municipal Water Utility applicable standards and requirements.

Cost of Services

The **total cost** to complete the Update of Water Main GIS Shapefiles on the GIS Water Utility Infrastructure System Mapping, as outlined above, is as follows:

Task One: Surveying Services - Survey the City/Private Fire Hydrants and Fire Hydrant Valves as Required by the New Jersey Water Quality Accountability Act to complete missing/incomplete infrastructure information for the Water Utility System Mapping project on a location-by-location basis, utilizing GPS technology. The GPS date and GPS coordinates will be collected, updated and the data layer returned to the Vineland City MWU for review.

Cost estimate and estimated completion time to be determined from written authorization to proceed.

Task One required in order to verify missing areas. Additional field survey work may be required and/or requested by the City beyond the scope of services presented herein. Any additional survey crew field work will be performed solely at the direction of the City of Vineland Municipal Water Utility for an additional per diem fee of \$1,780.00, including coordination at start-up, necessary research, office support, set-up, downloads and computations for this project. No additional survey work will be performed unless authorized by the City.

Note: Any optional survey work that may be required to accurately complete the GIS Water Utility Infrastructure System Location Data mapping will be proposed under separate cover and as requested and directed by the City once the actual extent of survey work has been established.

The cost estimate and estimated completion time will be completed for each **Phase/Task** from written authorization to proceed. All work will be invoiced at the current Vineland Water Utility contract rates and a dedicated project number will also be established for billing purposes.

The cost breakdown for the completion of the GIS Mapping Services complying with the New Jersey Water Quality Accountability Act, as outlined above, is as follows:

TASK ONE: LAND SURVEYING GPS DATA COLLECTION SERVICES

The estimated completion cost for TASK ONE Services as outlined herein: **\$30,000.00**

Task One required in order to verify missing areas. Additional field survey work may be required and/or requested by the City beyond the scope of services presented herein. Any additional survey crew field work will be performed solely at the direction of the City of Vineland Municipal Water Utility for an additional per diem fee of \$1,780.00, including coordination at start-up, necessary research, office support, set-up, downloads and computations for this project. No additional survey work will be performed unless authorized by the City.

Note: Any optional survey work that may be required to accurately complete the GIS Water Utility Infrastructure System Location Data mapping will be proposed under separate cover and as requested and directed by the City once the actual extent of survey work has been established.

Please note, RVE has assumed that the Vineland Water Utility will field verify and paint mark the location of all known water assets prior to the start of our survey field work data collection. We understand that the Vineland City MWU is unable to commit personnel to paint mark the hydrant valve locations at this time. In order to maximize our efforts in the field, RVE will, to the extent possible, GPS collect those hydrant valves where it is physically visible and obvious to the survey field crew where the valve is found, and data collect the location of as many as possible. Once the GIS database is updated, we will be able to display and identify what is missing/obscured and proceed accordingly, if and where directed by Vineland City MWU, at that time. Our cost estimate for the land surveying GPS data collection services scope of work is based on this assumption as required by the WQAA.

Please note that the GIS Data collections does not include surface elevations, only horizontal locations.

Exclusions: All work required not specifically described herein or in the attached Appendix A is excluded and will be provided separately, if required.

Assumptions/Exclusions:

1. We assume that the existing digital files (CADD/PDF format) of all water utility maps will be provided to our office, in their native file format, for the completion of this task and the verification of the accuracy of the existing water system. At a minimum the files must include water main locations, hydrants, wells, tanks, and water main sizes. If topographic data is not provided in these maps additional fees may be incurred to determine this information via utility maps and USGS topographical maps.
2. The Vineland City MWU GIS system geodatabase inventory is accurate for all hydrants – public and private and this inventory and maps are currently accurate for general fire hydrant locations only.
3. Once the database has been established, ownership will be transferred to the City of Vineland Municipal Water Utility. Maintenance of the database is not included in this scope of services and if required will need to be determined under an additional scope of services.