

**RESOLUTION**  
of the  
**BOROUGH OF NEW PROVIDENCE**  
Resolution No. 2019-096

Council Meeting Date: 03-25-2019

Date Adopted: 03-25-2019

TITLE           RESOLUTION ACCEPTING THE PROPOSAL OF MASER CONSULTING, P.A. FOR PROFESSIONAL ENGINEERING SERVICES REGARDING UNION AVENUE AND KLINE BOULEVARD INTERSECTION IMPROVEMENTS

Councilperson Muñoz submitted the following resolution, which was duly seconded by Councilperson Geoffroy.

WHEREAS, the Borough of New Providence acquired Professional Engineering Services as a non-fair and open contract pursuant to the provisions of N.J.S.A. 19-44A-20.5; and

WHEREAS, Maser Consulting was awarded a contract with the Borough of New Providence via Resolution 2017-018 to provide professional engineering services; and

WHEREAS, Maser Consulting Services has submitted a proposal dated March 20, 2019 indicating they will provide professional engineering services relating to Union Avenue and Kline Boulevard Intersection Improvements, for an amount not to exceed \$25,500.00; and

WHEREAS, the fees assessed with this proposal are contained in said contract; and

WHEREAS, the maximum amount of the contract is not to exceed \$25,500.00, and said funds are available from the following accounts:

C-04-55-968-290-306000	\$ 3,604.68
C-04-55-971-290-306100	\$ 2,656.48
C-04-55-973-290-404900	\$13,989.36
C-04-55-978-290-404900	\$ 5,249.48

and have been certified by the Chief Financial Officer; and

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the Borough of New Providence that they hereby approve and authorize the professional services included in the Maser Consulting Services proposal dated March 20, 2019.

APPROVED, this 25<sup>th</sup> day of March, 2019.

## RECORD OF VOTE

	AYE	NAY	ABSENT	NOT VOTING
CUMISKEY	X			
DESARNO	X			
GENNARO	X			
GEOFFROY	X			
MUÑOZ	X			
ROBINSON	X			
MORGAN			TO BREAK COUNCIL TIE VOTE	

I hereby certify that the above resolution was adopted at a meeting of the Borough Council held on the 25<sup>th</sup> day of March, 2019.

Wendi B. Barry, Borough Clerk



Engineers  
Planners  
Surveyors  
Landscape Architects  
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March 20, 2019

**VIA EMAIL**

Douglas R. Marvin, Administrator  
Borough of New Providence  
360 Elkwood Avenue  
New Providence, New Jersey 07974

Re: Union Avenue and Kline Boulevard Intersection Improvements  
Proposal for Professional Engineering Services  
Borough of New Providence  
Union County, New Jersey  
**MC Project No. NPT-001P**

Dear Mr. Marvin:

Maser Consulting P.A. (Maser Consulting) is pleased to present the following proposal for professional engineering services to redesign the intersection improvements for Union Avenue and Kline Boulevard. The current alignment of this intersection poses safety concerns due to the curvature of Union Avenue and the angle of which Kline Boulevard intersects forming the third leg.

The proposed Scope of Services below outlines the work Maser Consulting anticipates completing.

## **SCOPE OF SERVICES**

### **PHASE 1.0 – TOPOGRAPHIC SURVEY**

Maser Consulting will prepare a topographic survey of the subject area in accordance with the standards set forth in the Laws of the State of New Jersey Statutory Reference NJSA 45:8-28(e) and more specifically, the administrative rules and regulations promulgated by the State Board of Professional Engineers and Land Surveyors and contained in NJAC 13:40-5.1.

We will prepare a topographic survey map that is a graphic pictorial representation of the above ground features in the subject area (0.58± acres). The limits of the field survey include from the



center of the streets to 25' behind the curb or edge of pavement along Union Avenue and Kline Boulevard. An elevation shot will be provided on each driveway at the garage or the projected front house line.

The topographical mapping will depict spot elevations and contours at a one foot contour interval. Vertical and horizontal data will be tied to NAD 83 and NAVD 88. The **approximate** locations of the Right of Ways will be depicted based on Tax Maps and street addressed will be shown.

Visible and accessible surface utilities and/or utility structures within the survey limits as described above will be surveyed and shown on the plan including SUE markouts. Maser Consulting will conduct record research to determine the owners of any underground utilities and to request any existing records of these lines within the project limits. This information will be used in the field as reference and will be provided in the final deliverable package.

Maser Consulting will designate conductive subsurface utilities using RadioDetection RD8000 pipe and cable locators within the project limits. Where possible, utilities will be identified by designation to a known termination point (manhole, pull box, etc.) or through direct connection. In order to directly connect to utilities, access to utility rooms and/or basements of buildings may be required. The RD8000 will also be used in passive and inductive modes across the project site to identify and designate utilities that cannot be accessed from the surface. A Geophysical Survey Systems, Inc. (GSSI) Ground Penetrating Radar (GPR) SIR-3000 unit with a 400 MHz antenna will also be used as necessary to locate any underground utilities that could not be designated with the RD8000. Utilities will be marked in the field using pink marking paint and/or pin flags in accordance with American Public Works Association (APWA) standard color code (pink signifies temporary survey markings). Depth information for designated lines will be provided where possible. The results of the utility mark-out will be surveyed by a NJ licensed land surveyor for inclusion in the final deliverable.

GPR data will be collected within the project limits to evaluate the pavement and subbase thickness. The data will be post-processed and interpreted to determine the thickness of these materials within the project limits. This information will be included in the final deliverable.

A final report detailing the results of the utility investigation will be provided within two (2) weeks of completion of field work. The report will include the investigation methodology and equipment used, along with a detailed summary of all of the information obtained through the course of this work, including pipe sizes, materials, duct bank limits and any other pertinent information.

These services are conducted with due diligence and in a manner consistent with standards of the subsurface utility mapping industry. Every reasonable effort will be made to locate underground



utilities within the project limits. The possibility exists that some or all targets may be located at greater depths than the maximum achievable investigation depths, or that some of these same targets may not have electrical properties that enable them to be differentiated sufficiently from the subsurface soils. For these and other reasons, the parties understand that no method can be as exact and reliable as an actual excavation and physical examination of all areas under examination. In areas deemed critical, the owner/engineer is encouraged to use empirical means such as vacuum excavation to validate the exact location of identified or unidentified subsurface targets.

**PHASE 1.0 – TOPOGRAPHIC SURVEY FEE** **\$ 6,000.00**

**PHASE 2.0 – DESIGN**

Maser Consulting will prepare construction drawings and design specifications for the intersection improvements to Union Avenue and Kline Boulevard. The drawings and specifications will be prepared in accordance with the following design criteria and standards:

- a. NJDOT Design Manual for Roadways.
- b. NJDOT Design Manual for Bridges and Structures.
- c. Standard Specifications for Roadways – AASHTO.
- d. NJDOT Standard Specifications for Road and Bridge Construction.
- e. Manual on Uniform Traffic Control Devices.

The design will account for the existing roadway layout and surrounding properties as well as elements such as drainage, sidewalk and ramp access, crosswalks and utilities. The proposed layout of the intersection will allow for Kline Boulevard to intersect Union Avenue at a ninety (90) degree angle providing greater visibility when entering Union Avenue. This will also aid in channelizing vehicles coming from Union Avenue onto Kline Boulevard.

Prior to advertisement for public bid, our office will submit final plans, specifications, and an Engineer's Estimate to the Borough for review and comment. Upon authorization from the Borough, Maser Consulting will prepare a Notice to Bidders for the Borough to publish in a local newspaper.

**PHASE 2.0 – DESIGN FEE** **\$ 19,500.00**



**FEE AGREEMENT:**

For your convenience, we have broken down the total estimated cost of the project into the categories identified within the Scope of Services.

<b>PHASE 1.0 – TOPOGRAPHIC SURVEY</b>	<b>\$ 6,000.00</b>
<b>PHASE 2.0 – DESIGN</b>	<b>\$ 19,500.00</b>
<b>Total Not to Exceed</b>	<b>\$ 25,500.00</b>

The above Engineering Services will be provided on an incremental basis not to exceed the listed amount. This Contract and Fee Schedule is based upon the Borough Engineering Contract Authorized by the Borough of New Providence.

The Borough CFO should also review and discuss this agreement with the appropriate Borough staff regarding allocation of the appropriate funding and/or bond ordinance for said Engineering Services.

**PROJECT DELIVERABLES**

Construction Drawings and Design Specification for bidding purposes.

**REIMBURSABLE EXPENSES**

Reimbursable expenses including delivery, printing, copying, postage and other reproducible costs for the above-mentioned deliverables are not included within this agreement and will be billed based on the Contract and Fee Schedule for the Borough Engineering Contract Authorized by the Borough of New Providence.

**EXCLUSIONS**

Any service associated with the following items is specifically excluded from the scope of professional services within this agreement:

- Boundary/Right of Way Survey;
- Construction stakeout services;
- Traffic Safety Control; and
- Bidding and Construction Administration



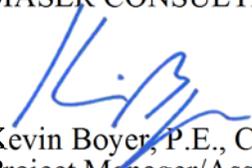
If any item listed herein, or otherwise not specifically mentioned within this agreement or the Borough Engineering Agreement, is deemed necessary, then Maser Consulting may prepare an addendum to this agreement for your review, outlining the scope of additional services and associated professional fees with regard to the extra services. Unanticipated additional services regarding engineering efforts will be in accordance with the Schedule of Hourly Rates on file with the municipality. No extra services will be performed without authorization from the Borough.

If you find this agreement acceptable, please forward a copy of the Resolution of Approval to this office. This will constitute approval of the proposed services.

We thank you very much for the opportunity to offer our services and look forward to working with you on this and future projects. In the meantime, should you have any questions regarding this agreement, please feel free to contact me.

Very truly yours,

MASER CONSULTING P.A.



Kevin Boyer, P.E., C.F.M.  
Project Manager/Associate

KEB/dlp

cc: Wendi Barry (New Providence Borough Clerk)  
Andrew Hipolit, P.E. (Maser Consulting)