

RESOLUTION
of the
BOROUGH OF NEW PROVIDENCE
Resolution No. 2019-097

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 SOUTH STREET AND SPRINGFIELD AVENUE TRAFFIC
STUDY

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 a
South Street and Springfield Avenue Traffic Study, for an amount not to exceed
\$32,000.00; 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 \$32,000.00,
and said funds are available from the following accounts:

C-04-55-968-290-306000

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 25th 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 25th day of March, 2019.

Wendi B. Barry, Borough Clerk



Engineers
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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: South Street and Springfield Avenue Traffic Study
Proposal for Professional Engineering Services
Borough of New Providence
Union County, New Jersey
MC Project No. NPT-002P

Dear Mr. Marvin:

Maser Consulting P.A. (Maser Consulting) is pleased to present the following proposal for professional engineering services to study South Street and Springfield Avenue traffic patterns in the downtown area. The scope of the study will include analyzing the intersections at six (6) locations as identified in this proposal and as discussed. This study, in general, will include traffic counts, capacity analysis and recommendations to mitigate traffic issues identified.

It is our understanding that a concern of the Borough is the cut-through traffic along Gales Drive and through the shopping center. Part of this study will focus on quantifying the cut-through traffic and analyzing the impacts to the general area.

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

SCOPE OF SERVICES

PHASE 1.0 – TRAFFIC STUDY

Maser Consulting will prepare a traffic engineering study to evaluate the existing roadway system in the vicinity of Springfield Avenue (CR 512), South Street (CR 647), and Gales Drive. Our study will focus on determining the amount of traffic that is using Gales Drive and the shopping center as a cut-through route to bypass the traffic signal at the intersection of Springfield Avenue with South Street and Passaic Street. To this end, Maser Consulting PA will perform the following tasks:



- **Field Investigation:** Our office will conduct a field inspection to obtain an inventory of existing roadway geometries, traffic control operations, signage, lane markings, locations and geometry of adjacent driveways, existing sight restrictions and to observe the daily operations of the roadway system and existing traffic patterns in the area immediately adjacent to the site.
- **Data Collection:** Manual Turning Movement Counts (MTCs) will be performed at the following intersections from 7am to 9am, 11am to 2pm, and 4pm to 6pm on a typical weekday and from 11 am to 2pm on a typical Saturday.
 - South Street and Gales Drive
 - South Street with Shopping Center Driveway
 - Springfield Avenue with South Street/Passaic Street
 - Springfield Avenue with Shopping Center Driveways (2 locations)
 - Springfield Avenue with Gales Drive

The results of the MTCs will be tabulated and summarized to develop existing peak hour traffic volumes. In addition, our office will conduct an origination/destination (O/D) study using license plate recognition to determine how many vehicles are using the shopping center and/or Gales Place as a cut-through route to bypass the traffic signal at the intersection of Spring Avenue with South Street/Passaic Street. The O/D study will be conducted during the same time periods as the MTCs.

Using standard regional growth rates established by NJDOT, the existing peak hour volumes will be adjusted to represent the anticipated design year. In addition, our office will identify any traffic from other approved developments, if any, in the area and include said traffic in the future traffic volumes.

- **Capacity Analyses:** Capacity analyses will be conducted to evaluate the operation and level of service of the intersections within the study area during the AM, Midday, PM and Saturday peak hours. Utilizing Synchro software, the future traffic volumes will be analyzed to determine future Levels of Service and Levels of Delay.
- Based on the results of the analysis, our office will provide recommendations to mitigate any traffic issues determined. The recommendations may include solutions such as signal timing/phasing modifications, striping improvements, traffic calming implementation, and turning movement restrictions.

A Traffic Study report will be prepared, suitably illustrated, summarizing the data collection, analysis, and recommendations and provided to the Borough for their review. Should the Borough



request to implement any proposed mitigation, a separate proposal will be provided for these engineering services.

Lump Sum Fee \$28,500.00

PHASE 2.0 – ACCIDENT ANALYSIS

Maser Consulting will request accident data from the Borough Police Department for a period of 5 years for any accidents occurring in the vicinity of the study area. Each accident report will be reviewed and categorized by crash type. A summary table will be prepared to determine total number of accidents per study year by type. This data will be analyzed to determine the number of accidents occurring within the study vicinity and whether there are any consistent accident types or consistent locations where accidents are occurring within the study area. The findings of the accident analysis will be summarized and included within the Traffic Study.

Lump Sum Fee \$3,500.00

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.

PHASE 1.0 – TRAFFIC STUDY	\$ 28,500.00
<u>PHASE 2.0 – ACCIDENT ANALYSIS</u>	<u>\$ 3,500.00</u>
Total Not to Exceed	\$ 32,000.00

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

Traffic study report and recommendations for mitigation.

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

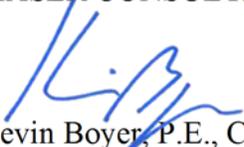
If any item listed herein, or otherwise not specifically mentioned within this agreement or the Borough Engineering Agreement, is deemed necessary, then Maser Consulting may prepare an addendum to this agreement for your review, outlining the scope of additional services and associated professional fees 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)