

RESOLUTION NO. 2019-84

WHEREAS, the Township Council of the Township of Aberdeen is in need of professional engineering services associated with the 2019 Road Improvement Program; and

WHEREAS, CME Associates submitted a proposal on May 24, 2019 for aforementioned engineering services for a cost not to exceed the sum of \$315,372.00.

NOW, THEREFORE, BE IT RESOLVED by the Township Council of the Township of Aberdeen that the Manager and Clerk are authorized to execute an agreement with CME Associates for a cost not to exceed the sum of \$315,372.00, in accordance with a proposal dated May 24, 2019, attached hereto and made part of this resolution.

This agreement is made without competitive bidding as a “professional service” under the provisions of the Local Public Contracts Law, N.J.S.A. 40A:11-5(1)a(I).

BE IT FURTHER RESOLVED the Director of Finance has certified to the Township Manager that there are available sufficient funds for the purpose of award of this contract in the 2019 General Capital Budget under the following line item appropriation of said budget to which this contract will be properly charged: X-03-5-100-103.



JOHN H. ALLGAIR, PE, PP, LS (1983-2001)
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JOHN J. HESS, PE, PP, CME

May 24, 2019

Ms. Holly Reycraft
Township Manager
Township of Aberdeen
One Aberdeen Square
Aberdeen, New Jersey 07747

**Re: *Proposal for Professional Services for the
2019 Road Improvement Program
Township of Aberdeen
Our File No. PAB00665.01***

Dear Ms. Reycraft:

Thank you for considering our Firm for the above referenced work and allowing us to submit this proposal for Professional Services associated with the above referenced Project.

INTRODUCTION

In preparing the scope of services for this Project, site visits were completed on all the roadways in order to familiarize ourselves with the current conditions.

Based upon meetings and discussions with Township Representatives, it is understood that the Township is considering the following improvements:

- Ambler Lane – Full Reconstruction
- Ambler Court – Full Reconstruction
- Deerfield Lane (Section 2 of 4) – Full Reconstruction
- Dawn Way – Full Reconstruction
- Sherwood Drive – Full Reconstruction (*including water main replacement*)
- Cliffwood Avenue – Mill and Resurface (*2018 Municipal Aid Recipient*)

The proposed scope of improvements to the above listed roadways generally consists of asphalt pavement milling and/or roadway excavation, the installation and/or removal and replacement of concrete curb, sidewalks and driveway aprons where necessary, furnishing and installation of stone subbase, dense graded aggregate base course, hot mix asphalt base course, hot mix asphalt surface course, storm drainage improvements, traffic striping and signage, maintenance and protection of traffic during the improvements, and associated work. The scope may also include water main replacement on Sherwood Drive based upon the condition and depth of the existing water main. The construction cost for this Project has been preliminarily estimated at \$3,900,000.00, which is dependent on the actual magnitude of improvements deemed necessary during the design phase.



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SURVEY, BASE MAPPING AND DESIGN FOR THE 2019 ROAD IMPROVEMENT PROGRAM

Professional Services associated with the 2019 Road Improvement Program will consist of the necessary topographic survey and base mapping, design, permitting, plan and specification preparation for the proposed improvements on Ambler Lane (from Avondale Lane to Andover Lane); Ambler Court; Deerfield Lane (from Deborah Lane North End to Drexel Lane); Dawn Way (from Deerfield Lane to Lloyd Road); Sherwood Drive (from S. Concourse to Woodmere Drive); and Cliffwood Avenue (from Sweetbriar Street to Shore Concourse).

The aforementioned roadway limits from the D-Section comprise Section 2 of 4. It is anticipated that drainage improvements at the intersection of Deerfield Lane and Drexel Lane will be completed in conjunction with Section 3 of 4 in a subsequent Road Improvement Program.

DESIGN PHASE SERVICES

PHASE I - DESIGN

TASK 1 - SURVEY, BASE MAPPING, AND SUBSURFACE EVALUATION

Concerning the survey and base mapping, we anticipate performing field surveys to establish existing right-of-way lines, baselines, locate topographic features, establish vertical control, and obtain cross-section data at 50' intervals along Ambler Lane, Ambler Court, Deerfield Lane, Dawn Way, Sherwood Drive and Cliffwood Avenue within the defined project limits. Cross section elevations will be taken at the roadway centerline, at the top and bottom of curb, and will extend a distance of approximately 40' from the roadway centerline. Spot elevations will be taken, if and where required, in order to supplement the cross-section data, including elevations at driveways in order to eliminate potential conflicts.

Base maps will be prepared at a scale of 1" = 30', or other appropriate scale. Where possible the locations of existing utilities will be compiled and added to the plans, if and where necessary.



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TASK 2 - DESIGN OF IMPROVEMENTS, PLANS AND SPECIFICATIONS

With regard to the design phase for the Project, we anticipate meeting with representatives of the Township prior to commencing the design phase in order to review the Project schedule and other preliminary issues. Plans will be prepared in plan and profile format.

Additionally, individual curb ramp details will be prepared for proposed curb ramps throughout the project limits. Curb ramp details will be prepared at a suitable scale to provide ADA conforming curb ramps.

Test pits will be requested from the utility companies at locations where potential utility conflicts are anticipated. Test pits will also be required along Sherwood Drive in order to identify the depth, type and size of the existing water main, which is owned and operated by the Township. It is anticipated that Township will be notified to ascertain if the Public Works Department can perform test pits along Sherwood Drive. If this is not feasible, a quote for this work will be requested from Gray Supply Corp. We understand the Township will provide these expenses to CME separate from this contract. Accordingly, it is recommended that the Township allocate an additional \$10,000.00 for this work.

Lastly, it should be noted that at the direction of the Township, certain storm drainage was eliminated due to budget constraints for Ambler Lane, Sherwood Drive and Deerfield Lane and the existing valley gutters will remain where they currently exist in order to convey the drainage.

In addition to the pre-design meeting, we anticipate meeting with representatives of the Township when the plans are 50% and 90% complete. The plans will be revised to comply with Township comments and preliminary cost estimates will be submitted for Township review at the 50% and 90% complete review meetings.

PHASE I - COST PROPOSAL

Accordingly, based upon the above outlined scope of services, we find that the necessary surveying, base map preparation, design, plan and specifications for Ambler Lane, Ambler Court, Deerfield Lane, Dawn Way, Sherwood Drive and Cliffwood Avenue can be provided for the lump sum fee indicated below based upon the following breakdown:

Task 1 - Surveying and Base Map Preparation	\$70,413.00
Task 2 - Design, Plans and Specifications	<u>\$229,150.00</u>
Phase I Subtotal	\$299,563.00



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PHASE II – PERMIT ACQUISITION

Concerning the permit acquisition phase of the Project, we anticipate submitting complete applications for the permits outlined below, and our scope of services will include one (1) plan revision to comply with review agency comments. In addition, we will request the required application fees, and we understand the Township will provide these expenses to CME separate from this contract.

TASK 1 - SOIL EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION

We anticipate submitting the required applications for Soil Erosion and Sediment Control Plan Certification to the Freehold Soil Conservation District and Request for Authorization (RFA) for stormwater discharge associated with construction activity to the New Jersey Department of Environmental Protection as necessary, in accordance with the above Scope of Services.

PHASE II - COST PROPOSAL

Accordingly, based upon the above outlined Scope of Services, we find that the necessary permit application and plan preparation associated with the Soil Erosion and Sediment Control Plan Certification can be provided for the lump sum fee indicated below:

Phase II Subtotal	\$3,255.00
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PHASE III – FUNDING AGENCY COORDINATION

As you know, Cliffwood Avenue is funded through the New Jersey Department of Transportation's (NJDOT) Fiscal Year 2018 Municipal Aid Program from the NJDOT Transportation Trust Fund (TTF). Accordingly, final plans, specifications and construction cost estimates will be submitted to the NJDOT in accordance with State Aid guidelines for approval prior to bidding. Additionally we anticipate periodically monitoring the NJDOT SAGE website for any posted review comments and/or requests for information pertaining to the Municipal Aid Grant.

PHASE III - COST PROPOSAL

Accordingly, based upon the above outlined scope of services, we find that the necessary funding agency coordination phase services can be provided for the lump sum fee indicated below:

Phase III Subtotal	\$5,580.00
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PHASE IV - BID PHASE SERVICES

We anticipate that Bid Phase Services will generally include the furnishing of twenty (20) sets of plans and specifications prior to advertisement for bids; coordination with prospective bidders during the bid period; issuance of any addenda required; attendance at the bid opening, and the preparation of a report recommending award of the project.

PHASE IV - COST PROPOSAL

Accordingly, based upon the above outlined scope of services, we find that the necessary bid phase services can be provided for the lump sum fee indicated below:

Phase IV Subtotal	<u>\$6,974.00</u>
Phase I, II, III and IV Total	\$315,372.00

CONSTRUCTION PHASE SERVICES

We will provide construction phase services based on our attached hourly rate schedule and the actual time necessary to provide these services since same could vary considerably depending upon the contractor awarded the Project and the final scope of work.

For budgeting purposes, we have preliminarily estimated the cost for anticipated construction phase services at \$347,374.00, based upon the required tasks and the anticipated contract completion time of 330 calendar days.

In addition, please note that NJDOT Guidelines for State Aid Projects require that pavement cores be taken and analyzed at the completion of the project. Accordingly, we recommend that the Township budget an additional \$2,200.00 for the costs associated with the coring.

SUMMARY

Our hourly rates shall be firm until January 1, 2020 after which they may be subject to re-negotiation. Invoices shall be paid within 30 days of presentation of same.

Our contract documents will include wording that requires the contractor to be responsible for all applicable OSHA and other regulatory agency requirements, as well as safety, construction means and methods, and the usual other requirements that are normally included in our standard specifications.