



**Request for Proposal
Geotechnical Consulting Services
Project Name: Fire Station Headquarters
Bath, Maine**

The City of Bath, Maine, requests qualified and licensed Geotechnical Consulting firms to submit sealed proposals to provide geotechnical explorations and soils evaluation services to the office of the City Manager for the proposed Fire Station Headquarters project, no later than 2:00PM local time, on Thursday, April 25, 2024.

The City of Bath is seeking proposals from qualified firms to investigate and document the existing property located at 826 High Street, Bath, ME. The scope of the project will be limited to the identified site currently identified as Assessor's Tax Map Lot 26, Lot 001.

This subsurface investigation is being conducted to support the design and construction of a new Fire Station Headquarters building. It is anticipated that the facility will be constructed on the site of the previous wing of the school facility. The Project has been in development since 2020, including existing conditions and spatial needs assessment, analysis of fire station on existing residential program, concept drawings and probable cost estimates. For more information on the project development, visit www.cityofbath.com/firestation.

We request a lump sum, fixed fee proposal to include all costs associated with your firm providing Geotechnical Engineering and Soil Boring, (including track-based drill rig and incidentals) services to conduct the subsurface investigation under your supervision. All work must be supervised and certified by a Professional Geotechnical Engineer, registered in the State of Maine. The selected Geotechnical Consultant will be responsible for laying out the test borings and securing the location of existing buried utilities through "Dig-safe" and the local and public utility companies.

The foundation design for the building will require a minimum of 6 (six) test boring holes. Five (5) test holes will be to a minimum of twenty (20) foot depth or refusal and one (1) to a depth of 50 feet or refusal, whichever occurs first. The Engineer may adjust depths, based on soil conditions and professional judgment, but in no case shall compromise required data. In addition, we will require two (2) in-situ hydraulic conductivity tests for storm water infiltration in accordance with ASTM D5126-90 and

DEP Stormwater Management Standards. The City will furnish a backhoe and operator to provide the excavation labor necessary for these test pits. Your office will be responsible for the coordination of this work.

The information resulting from this investigation is to be used for engineering purposes, including foundation design, pavement and utility work, sewer, and stormwater management in connection with the Project.

The specified investigations shall be completed, and the logs and report delivered to the Owner within ninety (90) days after authorization to proceed.

The cost of the soil investigation and Geotechnical engineering services (including the furnishing of all materials, apparatus, labor and required insurance), for soil boring and other exploration procedures, sampling, and engineering reports shall be based upon a single, lump sum fee to include everything furnished and done by the boring subcontractor if used, and your office.

The selected firm shall effect and maintain One Million Dollars General Liability insurance naming the City of Bath as "additionally insured" and certificate holder to protect from claims under workmen's compensation acts; claims for damages because of bodily injury including personal injury, sickness or disease, or death of any of his employees or of any person other than his employees; and from claims for damages because of injury to or destruction of tangible property including loss of use resulting therefrom; and Two Million Dollars professional liability coverage for a period of 5 years from the date of services from claims arising out of the performance of professional services caused by any errors, omissions or negligent acts for which he is legally liable.

The selected firm shall take all precautions to prevent damage to the property and any underground lines and shall restore the site to the condition existing prior to entry, including backfilling for borings. No revegetation will be required.

All data required to be recorded by the ASTM, or other standard test methods employed shall be obtained, recorded in the field and referenced to the boring numbers; soil shall be classified in the field logs in accordance with ASTM D2488, but the classification for the final logs shall be based on the field information, results of tests, plus further inspection of samples in the laboratory.

Vertical sections for each boring shall be plotted and graphically presented showing number of borings, date of start and finish, surface elevations, descriptions of soil, permeability and thickness of each layer, number of blows per foot (N value), and ground water elevation and time when water reading was made (repeat observation at end of workday), and presence of gases. Location of strata containing organic materials, wet materials or other inconsistencies that might affect engineering

conclusions shall be noted. Test pits, if any, shall log soil types, thickness measurements and if any historical high ground water (mottling) is present.

Preparation of final Geotechnical Report shall include laboratory determinations of soil properties. This Report shall analyze the information developed by investigation or otherwise available to you including those aspects of the subsurface conditions, which may affect design and construction of proposed structures, and shall consult with the Architect on the design and engineering requirements of the Project. Based on such analysis and consultation the selected firm shall submit a professional evaluation and recommendations for the necessary areas of consideration, including, but not limited to:

1. Foundation support of the structure and slabs, including bearing pressures, bearing elevations, foundation design recommendations and anticipated settlement;
2. Anticipation of, and management of, ground water for design of structures, pavements, and utilities;
3. Lateral earth pressures for design of walls below grade, including backfill, compaction and sub drainage, and their requirements;
4. Soil material and compaction requirements for site fill, construction backfill, and for the support of structures and pavements;
5. Subgrade modulus for design of pavements or slabs: and
6. Liquefaction analysis as required by IBC for the intended use as Occupancy Category III.

The results of this report shall be utilized in the design of footings, foundations, slabs as well as pavements and storm water infiltration systems.

Selected firm shall deliver five (5) hard copy originals and one (1) electronic version of soil reports and logs to the Owner. Samples of the strata in the test borings or test pits, representing the natural disposition and conditions at the site, shall be available for examination by a Code Official.

The Owner may make and distribute copies of the report and boring logs, without incurring any additional cost obligations.

Deadline to Submit Questions: Questions or clarifications regarding the RFP shall be submitted in writing by 2:00 PM, April 18, 2024.

Submit questions to:
Anthony DiLuzio, Owner's Project Manager
Anthony.diluzio@collierseng.com

Award Criteria: The City of Bath will contract with the lowest responsible vendor offering the most comprehensive services, as determined to be in the best interest of the City. The City shall not be responsible for any costs incurred by the respondent in the preparation and submission of its proposal.

Proposal: Submit one (1) original and two (2) copies, as well as one (1) electronic copy, no later than 2:00PM local time on **Thursday, April 25, 2024**. Sealed proposal shall be clearly marked "**Proposal for Geotechnical Consulting Services, Fire Station Headquarters Project**".

Proposals shall be delivered to:
Office of the City Manager
City Hall
55 Front St.
Bath Maine 04530