



Department of Buildings and Facilities
Town of Hinesburg
10632 Rte 116
Hinesburg, VT 05461
www.hinesburg.org
hinesburgpw@hinesburg.org
802.482.2096x229

April 5, 2013

Request for Proposals

The Town of Hinesburg is soliciting proposals from qualified firms for Geotechnical Engineering Services for proposed additions to the Hinesburg Fire Station and proposed new Police Station facility. Please see attached outline and scope of work from Engineering Ventures. Proposals should include cost of boring subcontractor and all scheduling of work to be coordinated by Geotechnical Engineer. We have established a fairly robust schedule for this project and would like the work to be complete by May 1, 2013. Please include a proposed schedule in your response.

Proposals are due by noon Friday April 12, 2013, one hard copy and one electronic copy is required.

Proposals shall be received in the office of Rocky Martin, Director of Buildings and Facilities, Town of Hinesburg, 10632 Route 116, Hinesburg, VT 05461. Electronic version should be directed to Rocky Martin at hinesburgpw@gmavt.net

Any questions regarding this request should be directed to Rocky Martin, 482-2281 ext 229 or 355-6847 or email address above.

Rocky Martin



208 Flynn Avenue, Suite 2A, Burlington, VT 05401 • Tel: 802-863-6225 • Fax: 802-863-6306
85 Mechanic Street, Suite B2-2, Lebanon, NH 03766 • Tel: 603-442-9333 • Fax: 603-442-9331

April 3, 2013

Mr. Ashar Nelson, AIA, LEED AP,
Vermont Integrated Architecture, PC
ashar@vermontintegratedarchitecture.com

Re: Town of Hinesburg Public Safety Facility
Hinesburg, VT
RFP Info for Geotechnical Engineering Services

Dear Ashar:

As requested, please find our attached outline conditions and criteria requirements for use in obtaining Geotechnical Engineering services applicable to the structural design of the proposed addition to the existing fire station facility, and proposed new police facility at the same site. The buildings are generally described as 1-story with a slab-on-grade, and distributed roof loads to exterior and interior bearing walls, and isolated interior columns. A shallow bearing foundation system is envisioned.

The building loads are relatively low and the existing soils are anticipated to be clayey in nature, along with fill material from previous work on the site. The construction costs may be better estimated, with less contingency, by lessening the likelihood of unforeseen conditions related to:

1. Condition of the existing fill materials on site, including anticipated removal and replacement, if required.
2. Consolidation and settlement parameters for the native clayey soils.
3. Absolute and relative expected settlement values for new foundation loads on the native soils; in particular for new foundations at the addition(s) adjacent to the existing facility foundations.

We recommend a minimum of three borings for a base cost; with one boring to the northwest of the existing fire station at the future addition, one boring to the south of the existing fire station at the future addition, and one at the proposed location of the new police facility. This, and the requirements on the Attachment, are our minimum requirements and should not be construed to exclude prudent practice based on observations made during the boring work, as well as parameters or work needed by other design disciplines or the Ownership.

Please call with any questions or comments. We look forward to optimizing designs, as possible, based on their work.

Regards,

A handwritten signature in black ink, appearing to read 'Greg Sellers', is written over a horizontal line.

Greg Sellers, P.E.

ATTACHMENT – CONDITIONS AND CRITERIA FOR GEOTECHNICAL RFP

SPECIAL CONDITIONS

1. Right of Entry: The Geotechnical Engineer will obtain the right-of-entry (permission for site reconnaissance, survey, borings, etc) from the Owner of the site. The Geotechnical Engineer will coordinate access, locations, and schedule with Owner personnel and will obtain a Digsafe-type permit to prevent from striking or damaging existing utilities and services. The Geotechnical Engineer will take reasonable precautions to minimize damage to the land from use of equipment.
2. Underground Facilities: Before The Owner and the Geotechnical Engineer performs any subsurface explorations, the Geotechnical Engineer will obtain from the Owner all plans and other information available concerning underground services, pipes, tanks and other facilities and obstructions at the site. The Geotechnical Engineer will contact local governmental authorities and private firms who coordinate underground utility information, and will review plans and information they, the Owner or Client provides.
3. Disposal of Samples: The Geotechnical Engineer will handle all holes so as to not leave them open. Soil, rock, and/or other samples obtained from the project site are the property of the Owner. The Geotechnical Engineer will maintain the samples throughout the duration of the project.
4. Contamination: The Geotechnical Engineer will immediately notify the Owner of any observations of hazardous substances or suspected hazardous substances, prior to continuing work. The lawful removal of hazardous substances is the Owner's responsibility.
5. Schedule: The Geotechnical Engineer will coordinate the work with Owner personnel; and complete the work to meet the project's schedule.

CRITERIA

1. Before the work is commenced or authorized, we recommend that the boring locations proposed by the Geotechnical Engineer be reviewed by VIA and Engineering Ventures. After an acceptable review and any adjustments or discussion, we request that we be apprised of the on-site work schedule. The locations of the borings may be adjusted in the field based on conditions encountered during drilling operations and their professional judgment. We request that any adjustments and the reason for the adjustment be reported prior to leaving the site.
2. It is understood that the depth of the borings will be as required to prepare their recommendations. It is intended that by classifying materials from visual observations and correlating this to recent work in the adjacent site, that recommendations can be made.
3. Classify all materials found, indicate correlated penetration resistance and water table level, as warranted. Soil samples may be taken to formulate your recommendations.
4. The report is also to be signed and sealed by a Professional Engineer registered in the State of Vermont. The work shall be conformed to the current governing building code for the State of Vermont.
5. We request that the proposal provide for a review of the foundation design on the Construction Drawings and Specifications by the Geotechnical Engineer-of-Record for conformance to the requirements and recommendations of their report.
6. We require that the Supplemental Geotechnical Report also include at least the following:
 - a. Foundation design recommendations for the building including foundation system(s), maximum allowable bearing pressures, estimated bearing depths, settlement and/or expansive soil issues, fill and backfill for slabs and foundations, bearing elevations, etc.
 - b. Design parameters to resist lateral loads on foundation systems addressing corresponding movements and limits with corresponding factors of safety.

- c. Slab-on-grade information and recommendations concerning bearing, separations from building elements, expansive soils. The modulus of sub-grade reaction for sustained and short-term loads should be included for pavement designs.
- d. All site fill placement and excavation recommendations and all information necessary, such as compactions for all different materials, for inclusion in Construction Documents and Specifications. Provide recommendations addressing re-use options of on-site materials.
- e. Pavement backfill design recommendations for both concrete and asphalt paving for light, medium, and heavy vehicle traffic. A modulus of subgrade reaction for concrete pavement and slab design will be included for short-term and sustained loads.
- f. Retaining wall design criteria including lateral earth pressures (passive, active, and at rest), coefficient of friction and adhesion at the base for sliding resistance, drainage, equivalent fluid pressure, etc. with corresponding factors of safety.
- g. Seismic geotechnical site information as required.
- h. Identify corrosive or conductive soil conditions and make recommendations for addressing such.