

PROFESSIONAL SERVICES SUPPLEMENT #8

AIA Document G604

In accordance with the AGREEMENT dated:

December 2, 2014

BETWEEN:

**The Dover School District
School Administrative Unit #11
McConnell Center
61 Locust Street, Suite 409
Dover, NH 03820-4132**

and:

**HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139**

for the Project:

Dover High School and Regional Career Technical Center

authorization is requested

- { to proceed with Additional Services
 to proceed with revised scope of Basic Services
 to incur Reimbursable Expenses

OR

notification is made

- { of the need to proceed with Contingent Additional Services
 of the need for other services

AS FOLLOWS:

Additional Services for the Construction-Phase Geotechnical Engineering. Services will not be billed over the Not-To-Exceed proposed fee without prior approval of JBC.


McPhail Associates, LLC	\$126,500.00
HMFH Coordination Fee - 10%	<u>\$12,650.00</u>
Total	\$139,150.00

(insert provisions covering time of commencement and completion of authorized services as applicable).

Prompt written notice is required if the services indicated are not needed.

SUBMITTED BY: HMFH Architects, Inc.

AUTHORIZATION IS GIVEN or
NOTIFICATION IS ACKNOWLEDGED BY:



(signature)



(signature)

Laura Wernick, AIA, Treasurer

(printed name and title)

Robert Carrer

(printed name and title)

7/7/2016

(date)

7/8/16

(date)

AIA DOCUMENT G604 • PROFESSIONAL SERVICES SUPPLEMENT • 1993 EDITION • AIA •
• THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVE., N.W., WASHINGTON, DC 2006

G604-1993



June 29, 2016

HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

Attention: Ms. Tina Stanislaski

Reference: Dover High School; Dover, New Hampshire
Revised Proposal for Construction-Phase Geotechnical Engineering Services

Ladies and Gentlemen:

We are pleased to present our revised proposal for providing construction-phase geotechnical engineering services for the proposed Dover High School development located in Dover, New Hampshire.

Project Overview

The Dover High School campus occupies an irregularly shaped site that is bounded by Dover Middle School and the Bellamy River to the north, Durham Road to the southeast, residential properties to the south and Bellamy Road to the west. Currently, the campus is occupied by the existing high school building which is located on the southeastern quadrant of the site with parking areas immediately surrounding and to the south of the existing school. The school fronts to the south onto Alumni Drive which crosses the southern half of the site. Athletic fields are located to the north and west of the existing building. A separate small school building is located to the southwest of the main high school structure on the south side of Alumni Drive. Ground surface slopes gently down from southwest to both the north and east with athletic fields benched into the existing grade changes.

The proposed development involves the construction of a new school building to the northwest of the existing school. Based on the information provided to us, the proposed 3-story building will occupy a footprint of approximately 185,000 square feet. It is understood that the proposed building will not contain any below grade space but will be benched into the existing slope of the site which drops from southwest to northeast across the proposed building footprint. The proposed lowest level slab within the northeastern end of the proposed building will be constructed at Elevation +84. The lowest level slab across the remainder of the building is understood to be at about Elevation +98. A courtyard and walkways will occupy the central portion of the building footprint. In addition, it is understood that current football/soccer field will be replaced with a synthetic turf field and new track.

Previous geotechnical related services provided by McPhail Associates LLC (McPhail) for this project included the preparation of the following:

- Preliminary Foundation Engineering Report, Dover High School; Dover, New Hampshire dated May 14, 2015;



- Final Foundation Engineering Report, Dover High School; Dover, New Hampshire dated November 2, 2015;
- Revised Foundation Engineering Recommendations Letter, Dover High School; Dover, New Hampshire dated March 21, 2016;
- Foundation Engineering Report, Proposed Animal Science Building and Covered Riding Paddock, Dover High School; Dover, New Hampshire dated June 13, 2016;
- Building Earthwork Specifications, Dover High School & Career Technical Center; Dover, New Hampshire dated May 17, 2016; and
- Aggregate Pier Specifications, Dover High School & Career Technical Center; Dover, New Hampshire dated May 17, 2016.

Based on the proposed scope of development and the subsurface conditions encountered at the site, Foundation Engineering Reports prepared for this project by McPhail recommended that the proposed building be founded on a conventional spread footing foundation system in conjunction with slab-on-grade construction for the lowest level slab. It is recommended that spread footings bearing in the glacial till or marine deposits, or on compacted structural fill placed directly over the undisturbed marine and/or glacial till deposit after removal of the existing fill material, or on the fill and marine deposits improved with aggregate piers.

Construction Phase Engineering Services

Construction monitoring is required to observe compliance with the design concepts incorporated into the Contract Documents. Installation of aggregate piers and preparation of the footing and slab-on-grade subgrades requires observation to confirm that proper methods are being utilized and that the actual in-situ conditions are consistent with those upon which the design was predicated.

Based on the provided construction schedule, it is understood that preparation of the areas for Aggregate Piers and their installation will begin around August 16, 2016 and will be finished on October 25, 2016. In addition, it is understood that foundation subgrade preparation will start on September 14, 2016 and it will be completed around February 21, 2017. Lastly, it is anticipated that slab-on-grade preparation will require about twelve (12) weeks to complete.

Therefore, it is recommended that a representative of McPhail be present during the earthwork and foundation construction phase of the project to observe installation of aggregate piers, preparation of footing and slab subgrades, and placement and compaction of fill materials. Our involvement during the construction phase of the work should minimize costly delays due to unanticipated field problems since our field engineer would be under the direct supervision of our project manager who was responsible for foundation design recommendations documented in the foundation engineering reports mentioned herein.



We propose to provide the following scope of foundation construction monitoring services associated with the proposed project:

1. Review the Contractor's submittals for fill materials, dewatering, and methods for fill placement and design and installation methods for ground improvement for conformance with the project earthwork specification requirements;
3. Provide a field engineer on-site on a full-time and a part time basis for eighteen (18) weeks (720 hours) and ten (10) weeks (200 hours), respectively, to monitor installation of the ground improvement consisting of aggregate piers, preparation of foundation and slab-on-grade bearing surfaces, and placement of engineered backfill within the building footprint;
4. Prepare and submit field reports summarizing each day's construction activities while on-site;
5. Attend job meetings as required and provide consultation on geotechnical-related issues and problems which may arise during the course of the work; and
6. At the completion of the geotechnical-phase of the project, prepare a cover letter summarizing the observations documented in the daily field reports and the conformance of both the placement of engineered fill and foundation bearing surface preparation with the requirements of the Contract Documents.

The fee for engineering services would be based on a multiple of 2.5 times salary cost for technical personnel directly attributable to the project plus any direct expenses (e.g. report reproduction) at cost plus 15 percent. Mileage costs would be billed at cost with no markup.

Our current salary cost ranges for McPhail Associates, LLC personnel are:

Principal	\$77.88 - \$90.87/hr.
Project Manager/Associate	\$43.20 - \$63.61/hr.
Project Engineer/Field Engineer	\$34.76 - \$47.93/hr.
Technician/Draftsman	\$32.40 - \$38.48/hr.

Based on the proposed scope of construction and our experience on similar sized projects, the earthwork, and foundation construction is estimated to require our field personnel to be present on the site on a full-time and a part time basis for eighteen (18) weeks (720 hours) and ten (10) weeks (200 hours), respectively. Predicated on the above and assuming no unusual construction difficulties, the estimated fee for the construction-phase geotechnical engineering services is \$126,500.

Our total fee would be dependent upon the duration of our required presence on the site which is, of course, a function of the Contractor's progress and phasing of activities. Should our presence on the site be required for a greater or lesser period, the cost of our field



representative's time would be adjusted accordingly. Our estimated fee would not be exceeded without prior written approval by HMFH Architects, Inc.

It is hereby understood that the presence of our field representative on the site will be solely for the purpose of monitoring the above-described construction. Our work does not include supervision or direction of the actual work of the Contractor or his employees. The Contractor should be informed that neither the presence of our field representative nor the observations and testing of our firm shall relieve him in any way from his responsibility concerning defects discovered in his work. It is also understood that we will not be responsible in any way for job site safety as this will be the sole responsibility of the Contractor.

Our scope of services under this proposal specifically excludes geoenvironmental engineering services. Our scope of services also excludes chemical testing of the soil and groundwater. These services are available from McPhail Associates, LLC should they be required for this project.

The geotechnical engineer's liability for damages due to professional negligence will be limited to an amount not to exceed \$1,000,000 in accordance with the terms and conditions of our policy.

Invoices for services would be submitted monthly and payment would be due within 90 days. The Client agrees to pay interest at the rate of 1.5 percent per month on monies outstanding in excess of 90 days and collection costs on monies outstanding in excess of 120 days.

To authorize us to proceed with the services proposed above, please sign and return a copy of this letter. We appreciate the opportunity to submit this proposal and look forward to being of continued service to HMFH Architects, Inc. on this project. Should you have any questions or require further information, please do not hesitate to contact us.

Very truly yours,

McPHAIL ASSOCIATES, LLC

HMFH ARCHITECTS, INC.

Fatima Babic-Konjic, P.E.

BY _____

Ambrose J. Donovan, P.E., L.S.P.

DATE _____