January 8, 2026

Mr. Fergus Cullen
City Council
City of Dover
288 Central Ave.
Dover, NH 03820

RE: Construction Materials Testing Proposal
Dover High School Athletic Fields
Dover, New Hampshire **GSI Proposal No. 100-26**

Dear Mr. Cullen,

Geotechnical Services Inc., (GSI) is pleased to submit this proposal to provide construction monitoring and materials testing services for the referenced project. GSI is a full service geotechnical, environmental and construction materials consulting firm, providing engineering services on projects throughout New England. Our firm prides itself on rapid report turn around and client responsiveness. Our engineering staff is fully capable of providing professional services on a wide variety of projects. GSI's field technicians are certified, fully capable of performing multiple services for each site visit, and participate in our company continuing education program. GSI employs ACI certified technicians and operates in accordance with ASTM D3740 and D329 under the direction of a professional engineer with over 30 years experience in the areas of soil and rock testing. GSI follows the methods prescribed by ASTM, EPA, USA-COE, AASHTO, AWS, NCMA and other applicable professional societies test methods.

SCOPE OF SERVICES

This proposal outlines the more prevalent construction monitoring needs to our clients. Some may not apply specifically for yours, but offer additional services for future reference. A detailed proposal, specific to the project requirements can be provided at any time.

EARTHWORK

A. GSI would provide an Engineering Technician to perform field density tests and verify lift thicknesses. GSI typically would perform these services using one of the following methods:

ASTM D 1556 - Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method

ASTM D 6938 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods

The results of all tests as well as a summary of the day's activities are presented in a daily field report. The field density test locations and elevations must be provided from the project superintendent. The Engineering Technician does not direct the contractor or approve/reject any work. The project superintendent and/or resident engineer are notified of all test results following the completion of the test activities.

B. Provide laboratory testing of representative soil samples collected in the field by our technicians. Sieve and Proctor tests are performed at our materials testing laboratory and the results are generally available within two days. All tests are performed in accordance with the applicable ASTM standards.

C. GSI staff engineers are available for consultation should unanticipated subsurface conditions become apparent during earthwork operations. This may include the discovery of unanticipated conditions, difficult dewatering situations, bedrock, etc. In such cases, GSI could document the actual field conditions and measure quantities for change order negotiations.

CONCRETE

A. Provide an Engineering Technician for observation of concrete placement for compliance with project specifications. The Concrete Technician observes that the placement is the correct strength, checks batch time, performs slump tests, performs air content tests, and cast test cylinders. Physical tests performed in the field include the following:

ASTM C143 - Test Method for Slump of Hydraulic Cement Concrete

ASTM C1064 - Test Method for Temperature of Portland-Cement Concrete

ASTM C173 or ASTM C231 - Test Methods for Air Content of Portland-Cement Concrete (Volumetric and Pressure Methods)

And, if requested:

ASTM C138 - Test Method for Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

Concrete test cylinders will be fabricated and cured in accordance with ASTM C31 (Practice for Making and Curing Concrete Test Specimens in the Field) at the frequency indicated by project specifications. In the event that the project specifications do not indicate the testing frequency, we would cast a set of 4 cylinders for every 100 cubic yards (cy) or placement.

B. Provide for concrete test cylinders to be transported to our laboratory facility, in accordance with ASTM C31. Transportation procedures would be such that disturbance to the concrete specimens is minimal.

C. Concrete test cylinders would be tested for axial compressive strength in accordance with ASTM C39. GSI uses a Forney CT 500 compressive test machine that is calibrated annually. A copy of the calibration certificate is available upon request. Test results are generally submitted the day following completion of testing; with all low tests results immediately reported upon review of results.

D. In the event that further testing is required due to low cylinder compressive strength tests, GSI can, at the clients request, perform in-situ strength tests such as Windsor probe or extract cores for axial compressive testing to verify the compressive strength of the in-place concrete.

REINFORCING STEEL

A. An Engineering Technician would inspect the size, arrangement, and support of reinforcing steel prior to concrete placement. The work would be inspected with respect to approved shop drawings provided by the general contractor or structural drawings. Any discrepancies would be immediately called to the attention of the project superintendent and corrective action would be noted on our report.

MASONRY

A. Provide an Engineering to sample masonry mortar and provide compressive strength testing in accordance with ASTM C109. Sampling frequency will be performed in accordance with project specifications and recommendations set forth in ACI 530. In general, one set of 3 mortar cubes is made for the initial three consecutive days and thence every 5,000 square feet (sf) of masonry wall thereafter. The mortar mix proportions would be evaluated and a sample of the sand would be tested for gradation and fineness modulus determination.

B. Provide an Engineering Technician to sample masonry grout and provide compressive strength testing. Test method and sampling frequency is the same as with mortar. Test specimens would be made with 4x8 inch cylinders in accordance with NMCA recommendations.

C. The Contractor is responsible to coordinate the fabrication of concrete masonry unit block prisms. GSI would recommend a grouted, two block prism for every 5,000 sf of wall area. The block prisms would be allowed 28 days cure time and then tested for compressive strength in accordance with the project specifications.

STRUCTURAL STEEL/BOLTED CONNECTIONS

A. Provide a qualified CWI licensed inspector to review all welder certifications and procedures in accordance with AWS standards. Provide visual examination for all field welds for throat dimension, appearance, and length in accordance with approved shop drawings.

B. Upon request GSI will provide radiographic, ultrasonic, or magnetic flux testing of full-penetration welded connections in accordance with AWS D1.1 by an NDT or AWS licensed inspector. In general, the testing coverage for full-penetration welds would be trimmed back to 25% conditioned upon a rejection rate of less than 5% for at least 40 welds.

C. Bolted connections will be verified by an Engineering Technician for torque with either visual observation of sheared T.C. shanks or by testing with a torque wrench. All bolts would be subject to torque verification.

FEES

GSI would itemize our costs on a time and expense basis in accordance with the attached Rate Schedule and Terms and Conditions. Below is a list of standard services and rates selected for the above referenced job for your consideration:

CONSTRUCTION MONITORING SERVICES	***RATE***
Field Technician	195/½ day 385/full day

LABORATORY TESTING SERVICES

Soils	
Sieve Analysis (ASTM C-136 & C-117)	95/ea
Proctor (Standard or Modified)	135/ea
Concrete and Aggregates	
Concrete Cylinder Compression	25/ea

We trust that you find this proposal consistent with your needs. Should you have any questions with regard to this proposal, please do not hesitate to contact our office. You may formally execute this proposal by signing below and returning it to us for our files.

Very truly yours,

GEOTECHNICAL SERVICES, INC.

Alfred Osborne
Vice President/Manager

The preceding Scope of Services are accepted. Payment will be made in accordance with the Rate Schedule and Terms and Conditions.

Authorized Client Signature	**Printed Name**
Date	**Company**

BILLING AND PAYMENT: CLIENT recognizes that timely payment of GSI's invoices is a material part of the consideration GSI requires to perform the services indicated in this AGREEMENT. CLIENT shall pay GSI for services rendered in U.S. funds drawn upon U.S. banks, in accordance with the rates and charges set forth herein. Routine invoices will be submitted by GSI from time to time, but no more frequently than [every two (2) weeks], and shall be due and payable within [thirty (30)] calendar days of invoice date. If CLIENT objects to any portion of an invoice, CLIENT shall so notify GSI within [fourteen (14)] calendar days of the invoice date, identify the cause of the objection, and pay when due that portion of the invoice not in dispute.

CLIENT shall pay an additional charge of [one-and-one-half (1.5) percent (or the maximum percentage allowed by law, whichever is lower)] of the invoiced amount per month for any payment received by GSI more than [thirty (30)] calendar days from the date of the invoice, excepting any portion of the invoiced amount in dispute and resolved in favor of CLIENT. Payment thereafter shall first be applied to accrued interest and then to the principal unpaid amount.

COLLECTION COSTS: If CLIENT fails to make payment when due and GSI incurs any costs in order to collect overdue sums from CLIENT, the CLIENT agrees that all such collection costs incurred shall immediately become due and payable to GSI. Collection costs shall include, without limitation, legal fees, collection agency fees and expenses, court costs, collection bonds, and reasonable GSI staff fees at standard billing rates for GSI's time in efforts to collect. This obligation of the CLIENT to pay GSI's collection costs shall survive the terms of this agreement or any earlier termination by either party

SUSPENSION OF SERVICES: If CLIENT fails to make payments when due or otherwise is in breach of this agreement, then GSI may suspend performance of services upon 5 days written notification to CLIENT. GSI shall have no liability whatsoever to CLIENT for any costs or damages as a result of such suspension caused by any breach of this agreement by CLIENT.

HOLDING HARMLESS: CLIENT understands that "holding GSI harmless" as referred to in these Terms and Conditions, would, among other thing require CLIENT to compensate GSI for any time spent or expenses incurred by GSI in defense of any claim for which CLIENT has agreed to indemnify GSI, in accordance with GSI's prevailing fee schedule and expense reimbursement policy relative to recovery of direct project costs.

SAMPLES: Soil, rock, and water samples obtained from the site which have not been consumed in testing will be disposed of unless delivery to CLIENT is requested in writing. It is CLIENT'S responsibility to select and arrange for disposal procedures which encompass removing the contaminated samples from GSI's custody and transporting them to a disposal site.

CONFLICTS WITH PROPOSAL: Should any element of these Terms and Conditions be deemed in conflict with any element of the proposal or contract to which they apply, wording of the Terms and Conditions shall govern.

RESPONSIBILITY TO NOTIFY GSI: CLIENT hereby warrants that, if he knows or has any reason to assume or suspect that hazardous materials may exist at the project site, has done his best to inform GSI of such known or suspected hazardous materials' type, quantity and location.

DOCUMENTS: All documents generated by GSI in the course of rendering service to CLIENT will remain the property of GSI. CLIENT agrees that all documents and/or plans provided by GSI in connection with services rendered will be utilized solely by CLIENT for their intended purpose. GSI will not intentionally divulge documents or information regarding its services to parties other than CLIENT unless requested in writing by CLIENT.

RIGHT OF ENTRY: Unless otherwise agreed, CLIENT will furnish right-of-entry upon the site for GSI or its subcontractors to perform assessments or explorations as deemed necessary by GSI.

JOBSITE SAFETY Neither the professional activities of GSI, nor the presence of GSI or his employees or subconsultants at a construction site, shall relieve the General Contractor and any other entity of their obligations, duties and responsibilities including, but not limited to, construction means and methods, sequence, techniques or procedures necessary for performing, superintending or coordinating all portions of the Work of construction in accordance with the contract documents and any health or safety precautions required by any regulatory agencies.

GSI and his or her personnel have no authority to exercise any control over the construction contractor or other entity or their employees in connection with their work or any health or safety precautions. The Client agrees that the General Contractor is solely responsible for jobsite safety, and warrants that this intent shall be made evident in the Client's agreement with the General Contractor. The Client also agrees that the Client, GSI and GSI's subconsultants shall be indemnified and shall be made additional insured under the General Contractor's general liability policy.

LIMITATION OF LIABILITY: CLIENT agrees to limit GSI's liability to CLIENT and all third parties arising from GSI's professional acts, errors or omissions, such that the total aggregate liability of GSI to all those named shall not exceed $30,000 or GSI's total fee for the services rendered on this project, whichever is greater. CLIENT further agrees to require of all of their subcontractors an identical limitation of GSI's liability for damages suffered by the CLIENT or its subcontractors arising from GSI's professional acts, errors or omissions.

ASSIGNMENT: Neither party to this agreement shall transfer, sublet or assign any rights under or interest in this agreement (including but not limited to monies that are due or monies that may be due) without the prior written consent of the other party.

CONSEQUENTIAL DAMAGES: Notwithstanding any other provision of the agreement, neither party shall be liable to the other for any consequential damages resulting incurred due to the fault of the other party, regardless of the matter of this fault or whether it was committed by the CLIENT or GSI, their employees, agents, subconsultants or subcontractors. Consequential damages include, but are not limited to, loss of use and profit.

INDEMNIFICATION: GSI agrees, to the fullest extent permitted by law, to indemnify and hold CLIENT harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) to the extent caused by GSI's negligent acts, errors or omissions in the performance of GSI's professional services under this contract and those of GSI's subconsultants or anyone for whom GSI is legally liable.

CLIENT agrees to the fullest extent permitted by law, to indemnify and hold GSI harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) to the extent caused by CLIENTS negligent acts, errors or omissions and those of CLIENT's subconsultants or anyone for whom CLIENT is legally liable, and arising from the project that is the subject of this agreement. GSI is not obligated to indemnify CLIENT in any manner whatsoever for CLIENT's own

CONSTRUCTION/FIELD OBSERVATION

CLIENT recognizes that unanticipated or changed conditions may be encountered during [construction *or* remediation] and, principally for this reason, CLIENT shall retain GSI to observe [construction *or* remediation]. CLIENT understands that [construction *or* field] observation is conducted to reduce not eliminate the risk of problems arising during [construction *or* remediation], and that provision of the service does not create a warranty or guarantee of any type. In all cases, contractors shall retain responsibility for the quality and completeness of their work and for adhering to the plans, specifications, and recommendations on which their work is based. Should GSI for any reason not provide [construction *or* field] observation during the implementation of GSI plans, specifications, and recommendations, or should CLIENT unduly restrict GSI assignment of observation personnel, CLIENT shall, to the fullest extent permitted by law, waive any claim against GSI and indemnify, defend, and hold GSI harmless from any claim or liability for injury or loss arising from field problems allegedly caused by findings, conclusions, recommendations, plans, or specifications developed by GSI. CLIENT also shall compensate GSI for any time spent or expenses incurred by GSI in defense of any such claim. Such compensation shall be based upon GSI's prevailing fee schedule and expense reimbursement policy. (The term "any claim" used in this provision means "any claim in contract, tort, or statute alleging negligence, errors, omissions, strict liability, statutory liability, breach of contract, breach of warranty, negligent misrepresentation, or other acts giving rise to liability.")

WARRANTY: GSI strives to perform professional services in accordance with generally accepted engineering practice

GEOTECHNICAL SERVICES, INC. - RATE SCHEDULE, 2026

A. PROFESSIONAL STAFF

Principal Engineer	195/hr
Professional Engineer	145/hr
Field Engineer	115/hr
Staff Engineer	95/hr

B. CONSTRUCTION MONITORING SERVICES

Engineering Technician	195/½ day 385/full day
Steel Inspector (AWS Visual)	100/hr
Senior Engineering Technician	85/hr

C. LABORATORY TESTING SERVICES

Soils

Sieve Analysis (ASTM C-136 & C-117)	95/ea
Hydrometer Analysis (ASTM D422)	85/ea
Organic Content	100/ea
pH Determination	50/ea
Topsoil Nutrient Analysis	150/ea
Proctor (Standard or Modified)	135/ea
Atterberg Limits	150/ea
California Bearing Ratio	375/ea
Consolidation Testing (Taylor Method)	550/ea
Falling/Constant Head Permeability	275/ea
Triaxial Permeability	550/ea
Unconfined Compressive Test	250/ea

Concrete and Aggregates

Concrete Cylinder Compression	25/ea
Mix Design Review	600/ea
Concrete Core Compression Tests	65/ea
Masonry Prisms	35/ea
Mortar Cubes	35/ea
LA Abrasion	275/ea
Petrographic Analysis	cost + 20%

Asphalt

Density Tests	150/ea
Asphalt Extraction Tests	200/ea
Mix Review	600/ea
Batch Plant Inspections	125/hr

D. SUBSURFACE EXPLORATIONS

SUBCONTRACTOR COST + 20%

E. EQUIPMENT/MISCELLANEOUS

Transportation of Materials to Lab	45/hr
Nuclear Density Gage	50/day
Photo Ionization Detector	75/day
Vibration Monitor	Call for Quote
Guelph Permeameter	100/day
Groundwater Sampling Pump	50/day
Mileage	0.60/mile
UT Steel Testing Apparatus	100/day
Groundwater Monitor Wells	40/ft
Low-Voltage Holiday Detector	55/day
Dry Film Thickness Gage	25/day
Windsor probe test	100/shot
Swiss Hammer	50/day
Transit	75/day
Coring Rig and Crew	Call for Quote
James Electric Resistivity	75/day
Static Cone Penetrometer	100/day
Dynamic Cone Penetrometer	100/day

- Rates and mileage charges are assessed portal to portal from Weare, NH.
- Overtime surcharge for technical staff is 50%.
- Markup for reimbursable expenses is 20%.
- A surcharge of 50% applies to all same day service.
- Sundays and Holiday service are surcharged 100%.
- Interest rate of 1% per month may be applied to all overdue accounts.
- Test reports are subject to review by Material Engineer @ $95/hr.