FMG ENGINEERING 3700 Sturgis Road, Rapid City, SD 57702 • **fmgengineering.com** • 605-342-4105

July 12, 2022

Brett Burdett
Meade School District
1230 Douglas Street
Sturgis, SD 57785
brett.burditt@k12.sd.us

VIA EMAIL

Re: **Professional Services Proposal for**
Preconstruction Topographic Survey and Geotechnical Engineering Services
Sturgis Brown High School Kitchen Expansion Project
Sturgis, South Dakota

Dear Brett:

Thank you for considering FMG Engineering for the referenced project.

We understand a topographic survey and geotechnical evaluation is required to support design and construction of the Sturgis Brown High School Kitchen Expansion Project. The geotechnical evaluation and topographic survey for the project is required to determine the existing, geotechnical, and geologic conditions of the site and provide recommendations for design and construction of the facilities. This proposal outlines our project approach and costs to provide these services.

The following tasks are included in our scope of work based on our understanding of the project requirements.

TASK 1	PRECONSTRUCTION SITE SURVEY
1.1	Boundary Survey and Survey Control
1.2	Topographic Survey
1.3	Prepare Base Map - Calcs and Drafting
1.4	Map Check (Field and Office)

ASSUMPTIONS AND CLARIFICATION FOR TASK 1 PRECONSTRUCTION SITE SURVEY

- Survey is for preconstruction conditions. Construction staking is not included in this proposal, but can be negotiated, if requested.
- Verification of existing parcel size/location shall be based on existing corners for the subject property or other adjacent parcels that may provide additional evidence. No new corners, easements, or plats are included in this proposal.
- Survey control will be on local system to be established by FMG
- Use of higher-resolution, georeferenced drone image will be utilized to establish existing conditions. Conventional topographical surveying will be minimal.

TASK 2	GEOTECHNICAL INVESTIGATION
2.1	Field Exploration – Boreholes, Soil Samples, and Percolation Rate
2.2	Laboratory Testing
2.3	Report Preparation

ASSUMPTIONS AND CLARIFICATION FOR TASK 2 GEOTECHNICAL INVESTIGATION

- Geotechnical Evaluation will be conducted to evaluate the existing soil conditions and determine the appropriate geotechnical design parameters for the school addition and septic system expansion.

- Multiple boreholes will be drilled within the proposed building additional footprint. The boreholes will be drilled to a minimum of 10 feet below finished grades and will be drilled within accessible areas of the site.
- Field testing will be performed, and samples will be extracted for further laboratory analysis. Select soil samples will be tested in our laboratory to determine their general classification, physical properties, and engineering characteristics. The testing will be completed in accordance with applicable ASTM testing procedures.
- Upon completion of the field and laboratory testing and our analysis, a report will be prepared that transmits the boring logs and field data and laboratory results, provides a limited geologic analysis of the area, and provides our recommendations for design. In general, our recommendations will include subgrade improvement options, subgrade preparation techniques, and site-specific construction recommendations that we consider applicable, such as groundwater presence and impacts and excavation conditions.

Schedule and Fees

At this time, a schedule for delivery of the services listed herein has not been established, however, please be assured we will be diligent in working to meet your needs for the projects, and that we will perform the professional services in a timely manner consistent with sound engineering practices.

We propose to complete the scope of work described herein for the lump sum, not-to-exceed fees per task as outlined below. We will not exceed the cost estimate without justification, and prior approval.

Task 1 – Preconstruction Site Survey.....$6,750
Task 2 – Geotechnical Investigation.....$5,000
Total.....$11,750

If you have any questions, or desire any additional information, please call us at your earliest convenience. *Thank you for the opportunity to be of service.*

If this proposal is acceptable, please advise and we will prepare our standard professional services agreement for your signature.

Sincerely,

FMG Engineering

Alex Fisher, P.E.
C: J:\Marketing\Proposals\Civil\Architecture Inc\Sturgis Brown HS\Meade County School District