



28 September 2023

Mr. William Moffitt  
School Business Administrator / Board Secretary  
Wayne Township Public Schools  
50 Nellis Drive  
Wayne, New Jersey 07470

Re: Wayne Township Public Schools  
Early Childhood Center School: New Classrooms Building  
**Request for Proposals for Consulting Services – Geotechnical Investigations and Soil testing**

Ms. Statuto,

It has come to our attention that an addendum should be included for the Geotechnical Engineering RFP currently out for responses based on the following commentary by one of the respondents:

*“There was one issue we had with the geotechnical scope of work for this project in the RFP. It is the requirement to excavate 6 test pits within the area of the proposed paved and stormwater management areas to minimum depth of 12 feet and perform permeability testing in accordance with the NJ BMP at each test pit. Based on our experience, bedrock is most likely going to be encountered very near the ground surface (less than 5 to 10 feet). In order to excavate test pits to 12 feet, rock hammering may need to be performed. Also, per the BMP, if we have this shallow bedrock present, in-situ basin flood tests may need to be performed to determine if groundwater recharge is feasible, which are very expensive.*

*The way we have approached projects such as this in the past is to perform borings and shallow test pits first, without permeability testing, give that information to the site engineer and have them develop a very specific permeability testing program, which may include rock hammering and the basin flood tests if the site engineer cannot alter their design depths of stormwater management structures/types. The testing program would then be in select areas and possibly the number of tests reduced which would greatly reduce cost for the field testing”.*

In response to this commentary, please provide an addendum that will include the following clarifications to the RFP. Please modify Part B.2 as follows:

## B. DESCRIPTION

2. It is the intent of the Geotechnical Investigation to provide a complete and thorough study so as to determine the character, thickness, compactness and stratification of granular soils and the consistency of clay soils, including the taking of samples where required, and the depth of firm rock if encountered, together with its general location and condition. At a minimum, include in the contract at least (10) Soil Borings within the area of new building construction and (6) Test pits for Pavement and Storm Water Management Design. Refer to the attached schematic design plans to locate where the new building and paved areas are planned. The Geotechnical Engineer’s proposal for performing this work shall include the following, as a minimum:

- a. The actual number of borings and test pits proposed shall be the minimum, based upon the project area and the consultant’s professional experience. (See the attached Drawing Exhibit for the **Early Childhood Center School** site, for project location). Borings must extend at least 25 feet below grade (or to bedrock refusal if shallower). ~~Test pits must extend at least 12 feet below grade, depending on what the test pit is sampling.~~ Borings and ~~test pits~~ tests shall not be conducted within 5 feet of any underground utility that is shown on the Owner’s record mapping or as identified during the utility mark out.
- b. The Storm Water Management (SWM) test pits shall extend to 12 feet below existing grade, or to seasonal high groundwater if encountered above 12 feet. Perform permeability testing of the most hydraulically restrictive soil horizon between the depths of 4 feet and the

**Principals**  
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Hae-An Chyun, AIA  
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Daniel Vivanco, AIA

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bottom of the test pit (12 feet or seasonal high groundwater) in accordance with Chapter 12 of the NJ Storm Water BMP.

- i. If bedrock is encountered within 12-feet of surface: Excavate test pits to determine depth of bedrock within areas indicated by Engineer, and report results to Architect/Engineer. Do not proceed with permeability testing without direction from Architect/Engineer.
- ii. If directed, perform in-situ basin flood tests within test pits. Include Unit Price for in-situ basin flood test.

**b.c.** Each boring and test pit shall be at an appropriate spacing and sufficient quantity to collect a representative cross section of soils, bedrock and groundwater data on the project site. Geotechnical Engineer is responsible for determining the appropriate number and location of all borings and test pits needed to provide information needed by the Owner's design team as generally described herein. Land disturbance related to test pits shall be kept to the absolute minimum.

**c.d.** The borings are for the civil engineer and structural engineer to use for foundation design. The purpose and scope of work is as follows:

- i. Explore the subsurface soil and groundwater conditions within the proposed building area
- ii. Estimate the geotechnical properties of the encountered subsurface materials including soil permeability
- iii. Evaluate the foundation requirements for the building considering the anticipated structural loads and encountered subsurface conditions
- iv. Recommend an appropriate type of foundation for support of the proposed structure and present geotechnical related foundation design and installation criteria, including shallow and/or deep foundation design parameters and seismic site class
- v. Present recommendations relative to the support of slabs to be constructed on-grade, including the modulus of subgrade reaction (Kv)
- vi. Estimate the post construction performance of the recommended floor and foundation systems
- vii. Recommend lateral earth pressure and drainage criteria for use in the design of below grade walls
- viii. Discuss appropriate earthwork operations or considerations consistent with the proposed construction and encountered subsurface conditions. These could include the anticipation and management of groundwater, estimated depths of excavation required to remove unsuitable materials, evaluation of the suitability of the site soils for use as controlled fill and backfill, and material and placement requirements for controlled compacted fill and backfill.

**d.e.** Mobilization and demobilization charges for equipment.

**e.f.** The cost for providing engineering services to fully evaluate subsurface conditions of the site and to prepare a report of findings and recommendations.

**f.g.** The cost to review specifications for excavation, backfill, deep foundations, and any other geotechnical related items applicable to the project.

**g.h.** Any costs associated with the layout of test locations for the project.

**h.i.** Any costs for restoring the ground to a uniformly graded and safe condition. The boring locations are anticipated to all be within the proposed buildings footprint. Remove boring debris and patch damage from test operations to restore the landscaped and paved surfaces to match existing when complete.

**i.j.** A list of, and unit prices for, the laboratory tests required to prepare a report.

**j.k.** The total cost for providing all services required by this specification and referenced drawings.

**k.l.** The number of calendar days after receipt of notice to proceed to complete the field drilling, laboratory testing, and submission of preliminary and final engineering reports.

The updated information must be incorporated into the RFP responses.

Regards,

**Parette Somjen Architects, LLC**

A handwritten signature in black ink, appearing to read 'John Carton', with a stylized, cursive script.

By: John Carton, AIA, LEED-AP | Partner

enclosure

cc: W. Moffitt, WTPS  
L. Tibbetts, WTPS  
R. Tiedemann, PSA