



Pennsylvania Soil and Rock Incorporated

March 23, 2015

PS&R Proposal No. 14-604

Dr. Timothy Glasspool
Superintendent
Plum Borough School District
900 Elicker Road
Plum, PA 15239

Proposal For
Engineering Services
Civil/Site Design and Permitting – Proposed New Regency Park Elementary School
Plum Borough, Allegheny County, Pennsylvania

Dear Dr. Glasspool:

At your request, Pennsylvania Soil and Rock, Inc. (PS&R) is providing you with this proposal to provide engineering services for completion of the civil/site design and NPDES permitting for the proposed New Regency Park Elementary School located in Plum Borough, Allegheny County, Pennsylvania. Our services would include a site survey, geotechnical investigation/wetland review, preparation of a grading plan, landscape and lighting plans, sewage planning, completion of a Stormwater Management Plan, preparation of site specifications, preparation of an Erosion and Sedimentation Control Plan and NPDES (NOI) Permitting. The Erosion and Sedimentation Control Plans will also be submitted to the Allegheny County Conservation District for adequacy review.

There are some reductions in costs in this proposal compared to our original proposal, dated October 21, 2014 for the New Regency Park Elementary School Civil/Site Design and Permitting Option. The reductions are associated with the “Site Survey and Topography” and “Geotechnical Investigation and Wetland” Sections. A portion of the work associated with these sections was completed during the limited investigations to evaluate conceptual scenarios for moving forward with the project.

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Scope of Work and Costs for New Regency Park Elementary School

We propose to perform the scope of work for completion of the Civil/Site design as outlined below:

Site Survey and Topography: In order to complete the grading plan, a topographical and boundary survey of the property is required. A topographic survey will be performed with 2 ft. contours tied into the boundary survey of the property. The estimated cost to perform this item is **\$28,465.00.**

Planimetric Site and Utility Plan: A Site Plan showing, at a minimum, the location of grading, boundaries, lot lines, neighboring streets and rights-of-way, existing and proposed buildings, existing and proposed water and sanitary sewer lines, storm drainage and other utilities and data. Our estimated cost to perform this item is **\$15,580.00.**

Grading Plan: After completion of the site topography and boundary survey plan, we will prepare a grading plan based on the approved school layout. The grading plan will be prepared so as to balance the cut/fill quantities to the maximum extent possible. Our estimated cost to perform this item is **\$16,250.00.**

Landscape Plan: This work is completion of a landscape plan. The landscape plan will be prepared to incorporate plant layout associated with stormwater BMP's, local ordinances as well as general site aesthetics. Our estimated cost to perform this item is **\$7,600.00.**

NPDES, Erosion and Sedimentation Control Plans: Our work will also include preparation of an Erosion and Sedimentation Control Plan (E&SCP), Narrative and NPDES permitting for submittal to the Allegheny County Conservation District for adequacy review. The report and plans will be prepared in accordance with the requirements of PA Code Title 25, Chapter 102, Rules and Regulations. Our estimated cost to perform this item is **\$14,500.00.**

Site Construction Details: Construction details will be provided for site work including manholes, endwalls, pipe backfill and other site work related construction. Our estimated cost to perform this item is **\$11,110.00.**

Lighting Plan: The lighting plan will be prepared to provide sufficient light in the parking and building areas and a photometric plan will be provided. Our estimated cost to perform this item is **\$9,550.00.**

Storm Drainage and Utility Profiles: This work will include preparing profiles of storm and/or sanitary sewer lines. Our estimated cost to perform this item is **\$11,030.00.**

Post-Construction Stormwater Management Plan: Our work will include preparing a Stormwater Management Report including analysis, drawings, report narrative, stormwater management pond and pipe and/or channel design. The Stormwater Management Plan will be prepared in accordance with the requirements of the Plum Borough stormwater management ordinance along with the

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requirements and guidelines presented in the PADEP Best Management Practices (BMP) manual. Our estimated cost to perform this item is **\$13,000.00**.

Full Sewage Planning Module: This work will include preparing the required PADEP Sewage Facilities Planning Modules for submittal to the PADEP. This work also includes meeting with the Plum Borough Municipal Authority during the application process. Our estimated cost to perform this item is **\$11,980.00**.

Address Municipal/County Comments and Re-submit Plans: This includes the cost of making revisions to the Plans as required by the Township and/or County during the review process. Our estimated cost to perform this item is **\$12,000.00**.

Site Work Specifications and Bid Documents: This work will include preparing specifications and bid documents for Bid Packages, Demolitions Specifications, Asbestos Abatement, Site Work and will include engineering estimates and other related documentation. Our estimated cost to perform this item is **\$22,990.00**.

Site Visits, Project Coordination, Meeting Attendance, etc.: This work will include project coordination, attending meetings with the school district, the districts architect and the local municipality or other approving agencies during the project. Our estimated cost to perform this item is **\$8,750.00**.

Geotechnical Investigation and Wetland: Based on our review of the available data and the preliminary plans and site information, we propose to conduct a geotechnical investigation of the site which will consist of Standard Penetration Test (SPT) borings (soil and rock sampling). The SPT field results will be used to evaluate the characteristics of soil and rock that will be encountered during grading, building construction and pavement installation.

We propose to drill and sample Standard Penetration Test (SPT) borings at various locations throughout the site. The SPT borings will extend to the top of rock in the building addition area and the fill areas and to predetermined depths in rock in the cut area. The SPT borings will be used to determine the composition and depth of the soil overburden and the composition and consistency of the underlying bedrock. This data will then be used to make recommendations with regard to construction details such as keyways, benching and drainage, and for foundation construction.

Wetlands will be delineated in accordance with the United States Army Corps of Engineers (USACE) Wetland Delineation Manual and associated supplements. USACE wetland data forms will be completed for each wetland located on site. Streams will be identified based upon a field examination of hydrological features and topography. Wetland boundaries and stream locations will be recorded using a hand-held GPS unit.

Our estimated cost to perform these items (Geotechnical Investigation and Wetland Review/Delineation) is **\$24,975.00**.

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Estimated Schedule

We could have preliminary site plans (site grading, building layout and traffic flow) to the district by late April. We would need to have the district agree upon a final building layout and traffic flow by mid-May in order to meet the anticipated permitting schedule.

If you are in agreement with our proposed scope of work, estimated costs, schedule and Standard Terms and Conditions, please complete the Proposal Acceptance Agreement below and return one copy (with proposal attached) to us for our files. This will serve as our Notice to Proceed will the balance of the work outlined.

We appreciate your consideration of us for this work. If you have any questions regarding this proposal, please call me at (412) 372-4000.

Sincerely,
Pennsylvania Soil and Rock, Inc.

A handwritten signature in black ink, appearing to read "Arnold Caffas", is written over a light gray grid background.

Arnold Caffas
Project Manager

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PROPOSAL ACCEPTANCE AGREEMENT

The Pennsylvania Soil and Rock, Inc. Proposal No. 14-604, dated March 23, 2015 and entitled, "Proposal For Engineering Services, Civil/Site Design and Permitting – New Regency Park Elementary School, Plum Borough, Allegheny County, Pennsylvania" is accepted. We agree to pay PS&R invoices for this work within 30 days of the invoice date and agree to PS&R's Standard Terms and Conditions (attached). Any outstanding balance will be subject to 1.5 percent interest per month until it is retired. PS&R will submit monthly invoices as the work progresses based on percent completion of each item.

By:

Name and Title: _____

Company: _____

Address: _____

Date: _____

Signature: _____

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RATE SCHEDULE FOR PS&R SERVICES (EFFECTIVE JANUARY 2011)

PROFESSIONAL ENGINEER (P.E.)/PROJECT MANAGER	\$100.00/HR
PROFESSIONAL GEOLOGIST (P.G.)	\$ 85.00/HR
WETLAND/PLANT SPECIALIST	\$ 75.00/HR
SENIOR ENGINEER/GEOLOGIST	\$ 75.00/HR
DRILLING MONITOR (ENGINEER/GEOLOGIST)	\$ 65.00/HR
CONSTRUCTION FIELD MANAGER	\$ 55.00/HR
STRUCTURAL STEEL TECHNICIAN	\$ 55.00/HR
ENVIRONMENTAL SCIENTIST	\$ 50.00/HR
CONSTRUCTION/WETLAND TECHNICIAN	\$ 45.00/HR
CADD DRAFTSMAN	\$ 45.00/HR
CLERICAL	\$ 32.00/HR

EQUIPMENT RENTALS, EXPENSES & LABORATORY TESTS:

NUCLEAR DENSOMETER	\$ 40/DAY
4-WHEEL DRIVE TRUCK (PS&R) (or \$0.65 PER MILE-Whichever is greater)	\$ 25/DAY
PERSONAL AUTO/TRUCK (MINIMUM) (or \$0.55 PER MILE-Whichever is greater)	\$ 25/DAY
MISC EXPENSES (Subcontractors, Tolls, Postage, Supplies, Materials, etc.)	Cost plus 10%
B/W COPIES (8.5X11)	\$ 0.05/Copy
COLOR COPIES (8.5X11)	\$ 1.00/Copy
LARGE FORMAT DWGS	\$ 0.25/SF
COMPRESSIVE STRENGTH TESTING	\$15.00/CYL
STANDARD PROCTOR TEST (ASTM D698)*	\$145.00/TEST
MODIFIED PROCTOR TEST (ASTM 1557)*	\$165.00/TEST
MOISTURE CONTENT (ASTM D-2216)	\$ 5.00/TEST
ATTERBERG LIMITS (ASTM D-4318)	\$ 45.00/TEST

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MECHANICAL SIEVE (ASTM D-422)	\$ 35.00/TEST
HYDROMETER ANALYSIS (ASTM D-422)	\$ 45.00/TEST
NO. 200 WASH (ASTM D-1140)	\$ 35.00/TEST
SPECIFIC GRAVITY (ASTM D-8540)	\$ 45.00/TEST
PERMEABILITY (ASTM D-5084)	\$ 300.00/TEST

*Add \$20 for Rock Content and Correction