

**MODIFICATION # 3  
TO  
SAN RAFAEL CITY SCHOOLS  
INDEPENDENT CONSULTANT AGREEMENT  
FOR PROFESSIONAL SERVICES  
WITH MILLER PACIFIC ENGINEERING GROUP**

This Modification No. 3 ("Amendment") amends the Independent Consultant Agreement for Professional Services ("Agreement"), which was entered into by and between San Rafael City Schools ("District") and Miller Pacific Engineering Group ("Consultant") (together, "Parties") as follows:

**RECITALS**

WHEREAS, the Parties entered into the Agreement effective as of January 3, 2017; and

WHEREAS, the Parties wish to make certain modifications to their agreement.

NOW, THEREFORE, in consideration of the mutual promises and covenants set forth above and contained herein, the Parties agree as follows:

**AGREEMENT TO AMEND**

1. **Exhibit "A"** to the Agreement is deleted in its entirety and replaced with the document titled **"Exhibit "A"'"** and attached to this Amendment.
2. Section 4 of the Agreement ("Compensation") is amended to add the following:

4.5 In addition to the Compensation identified, above, and in Modification 1 to the Agreement, which increased the compensation by an additional Thirty-Nine Thousand and Eight Hundred Dollars (\$39,800), and in Modification 2 to the agreement, which increased the compensation by an additional Twenty-Two Thousand, Eight Hundred Dollars (\$22,800), for Geotechnical Services at Bahia Vista Elementary School Shade Structure, District shall pay to Consultant a fixed fee of One Thousand Dollars (\$1,000). The new total Agreement compensation amount shall be Eighty-Eight Thousand and Eight Hundred Dollars (\$88,800).

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3. All other provision of the Agreement shall remain in full force and effect and are reaffirmed. If there is any conflict between this Agreement and any provision of the Agreement relating to this Amendment only, the provisions of this Amendment shall control.

IN WITNESS WHEREOF, the Parties hereto have executed this Amendment on the dates indicated below.

By \_\_\_\_\_  
Michael Watenpaugh  
Superintendent  
San Rafael City Schools

\_\_\_\_\_  
Date

By \_\_\_\_\_  
Benjamin S. Pappas  
Miller Pacific Engineering Group

\_\_\_\_\_  
Date

## **Exhibit "A"**

For the San Rafael High School, Davidson Middle School, Laurel Dell Elementary School, Bahia Vista Elementary School, and Venetia Valley K-8 School, Consultant shall provide the Services described below in Sections 1 and 2 in accordance with the terms below:

### **1. Geological and Soil Engineering General Requirements**

- a. The Geological and Soil Engineering Consultant ("GSE Consultant") shall be a registered Geotechnical Engineer in California with experience in soils engineering. The work to be provided by the GSE Consultant includes the following: supply all equipment and labor to perform field exploration, drill test borings, sample soils and perform laboratory tests; evaluate geologic and seismic conditions; and provide full soils evaluations with detailed soils reports which shall include construction level recommendations, surface evaluation, subsurface exploration coring, boring log, r-value test results, grain size distribution, soils classification according to the Unified Soils Classification System, laboratory testing of earth materials collected, ground water evaluation, existing geologic, seismic, and soil conditions present within the Property, and evaluation of potential impacts to the Project under conditions associated with faults, strong seismic ground shaking, seismic-related ground failure such as liquefaction, landslides, and unstable geologic units and/or soils.
- b. The geological and soil engineering studies of the Property shall be conducted in compliance with Education Code sections 17212.5. The GSE Consultant will be the District's advisor for the existing sites and identified projects with regard to compliance with statutes and regulations on Geological and Soil Engineering services. The successful GSE Consultant will ensure that the District complies with all laws and regulations governing Geological and Soil Engineering which are applicable to the construction, renovation, or modernization of a public school or public school facilities, including without limitation Public Resources

Code section 21000 et seq., Government Code section 65402, Education Code section 17210 et seq. and all applicable regulations. The successful GSE Consultant shall coordinate its work with the District's other consultants without limitation. The successful GSE Consultant shall respond to public comments on any reports issued by the GSE Consultant on the Project and shall attend and participate in any public hearings upon District request.

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## **2. Preliminary Geotechnical Investigation and Geologic Hazard Study**

- a. Review of literature, including reports and studies relating to the geology of the sites, potential geologic hazards, and other relevant subsoil conditions.
- b. Review of maps, aerial photos, and any other existing surveys relating to geological or geologic hazard conditions at the sites.
- c. Site reconnaissance and visual confirmation of existing surface conditions on the sites.
- d. Soil testing, boring or probes to establish preliminary soils conditions on the sites.
- e. Review and correlation of data to confirm any geologic hazards existing on or adjacent to the sites which might impact future school development, including identified projects.
- f. Preparation of the Preliminary Geotechnical and Geologic Hazard Study for each of the sites including:
  - i. Identification of the general soils characteristics of the sites.
  - ii. Preliminary bearing values for building and site design including foundations, slabs-on-grade, paving, retaining walls.
  - iii. General preliminary recommendations for appropriate foundation designs for new construction, and retrofit of existing buildings.
  - iv. The report should identify any areas of the site that may be unsuitable for consideration as areas for possible school construction.
- g. Meetings with District staff and Bond Team to review the course of work, review draft documents and to consider comments prior to final issuance.
- h. Final Documents issued to District.

## **3. Design Level Geotechnical Recommendations**

- a. Supplemental Geotechnical Engineering Investigation for specific new construction, additions, or renovation projects.
- b. Develop recommendations for grading, excavations, groundwater mitigation, foundations, footings, piers, slabs for building and site elements.
- c. Develop recommendations where ground improvement strategies may be required including areas of liquefaction.
- d. Coordination with the District's design and engineering teams.
- e. Preparation of Final Geotechnical report summarizing site Engineering Geology for full compliance with California Geological Survey Note 48 requirements
- f. Assist the District in the preparation of testing and inspection requirements for building and site elements subgrades and foundations.

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#### 4. Construction Phase Services

- a. For specific projects provide support during bidding and construction.
- b. Respond to Requests for Information related to geotechnical engineering issues during bidding and construction.
- c. Develop any supplemental information, recommendations, or reports needed to facilitate construction in accordance with approved plans and reflecting sub-surface issues which may be encountered during the work.
- d. Coordinate services with the District's Architectural, Engineering, and Construction Management teams.
- e. Provide and coordinate all required testing for compaction, excavations, building and foundation subgrades, slab subgrades, engineered soils mitigation elements. Coordinate laboratory analysis and report timely to the project team.
- f. Provide certification as required for each element and final certification as required to close the project with the Division of State Architect.

In addition to the Services identified above, in Sections 1 through 4, inclusive, Consultant shall provide the following services during the construction phase of the District's San Rafael High School Stadium Renovation Project ("Stadium Construction Phase Services") as follows:

#### 5. Stadium Construction Phase Services:

Services under Section 4, above, as well as Site observation and testing during the Construction Phase, including the following:

- **Pre-Construction Meeting:**  
We will attend a pre-construction meeting,
- **Laboratory Testing:**  
We will collect bulk samples of the soils and baserock utilized on the project to determine the maximum laboratory density and optimum moisture content. We have budgeted time to perform 4-laboratory compaction curves.
- **Lime Treatment Testing:**  
We will perform site visits during the lime treatment process to verify the amount of lime placed and observe the procedures utilized by the Contractor. We have budgeted 2 site visits totaling 12-hours to perform this task.
- **Subgrade Testing:**  
We will perform intermittent site visits to perform field density tests on building pad, track and field, and parking lot subgrades. We have budgeted 6 site visits totaling 16-hours to perform this task.

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- **Baserock Testing:**  
We will perform intermittent site visits to perform field density tests on the baserock utilized underlying the track and field, parking lot subgrades, and other flatwork. We have budgeted 6 site visits totaling 16-hours to perform this task.
- **Foundation Inspection:**  
We will perform intermittent site visits to observe foundation excavations for the new structures, including the stadium seating, ticket/restroom building, and stadium lights. We budgeted 8-site visits totaling approximately 16-hours of time to perform this task.
- **Asphalt Pavement Section Testing:**  
We will perform intermittent site visits to test compaction of the subgrade and Caltrans Class 2 Aggregate Baserock placed on to construct the subgrade. We budgeted 4-site visits totaling approximately 20-hours of time to perform this task.
- **Other geotechnical items, as needed.**

The purpose of the construction observation and testing services is to form an opinion regarding the Contractor's compliance with the plans and the recommendations outlined in the Geotechnical Investigation Report dated September 2, 2015. Following completion of the construction observation and testing services, Consultant shall prepare and provide a sufficiently detailed letter report to District summarizing Consultant's observations and providing Consultant's opinion.

## **6. Geotechnical Services – Bahia Vista Elementary School**

Services under Section 4, above, as well as update the seismic and foundation design criteria given in the 2003 reports to the current 2016 California Building Code and update the Geotechnical Investigation report.

[END OF EXHIBIT]