



Project Name: West Creek 2-Story Site Work	Change Order #: 1	
Project Number: 98001	Date: 06/07/17	
To (Contractor): RMA GeoScience	DSA Application #: n/a	
Address: 12223 Highland Ave. Ste. 106-579 Rancho Cucamonga, CA 91739	Contract #: 16-17-276	Contract Date: 02/07/2017
	PO #:	PO Date:

THE CONTRACT IS CHANGED AS FOLLOWS:

Additional testing needed. See attached pages A1-A7.



SAUGUS

Union School District

Excellence in Elementary Education

24930 Avenue Stanford, Santa Clarita, California 91355

Phone: 661-294-5300 / www.saugusd.org

Adjustment to Contract Amount		Adjustment to Contract Schedule	
Original Contract Amount:	\$ 40,954.00	Original Contract Duration:	N/A
Prior Contract Adjustments:	\$ 0.00	Original Completion Date:	01-31-18
Contract Sum Prior to this		Total Approve Time	
Change Order:	\$ 40,954.00	Extension to Date:	
Adjustment per this Change Order:	\$ 22,566.00	Adjustments per this Change Order:	
Revised Contract Amount:	\$ 63,520.00	Completion Date Including This Change:	01-31-18

The amounts and/or time listed in this change order are full, complete and final mutual account and satisfaction from all direct, indirect, impact, delay cost and time for the work defined in this change order. All other terms and conditions of the original contract are to remain the same.

Mark Swiatek, RMA GeoScience, President

Date

Nick Heinlein, SUSD Asst. Superintendent of Business

Date

May 17, 2017

RMA Project No.: 15-I22 -0

Saugus Union School District
24930 Avenue Stanford
Santa Clarita, CA 91355

Attention: Mr. Magdy Abdalla

Subject: Request for Contract Extension
Two-Story Classroom Building
West Creek Academy
28767 West Hills Road
Santa Clarita, California

RMA GeoScience is requesting additional budget for additional welding and concrete testing and inspection. Off site work for the elevator fabrication, off site welding and off site concrete fabrication were not anticipated in the original bid.

SCOPE OF WORK

Our scope of work, as well as our estimated costs associated with these services, is further detailed herein.

the contractor if, at any time in our opinion, the work is not in conformity to the plans and specifications.

Upon completion of the work we will prepare a final report that will summarize our geotechnical observations and the results of all tests performed. Each report will contain recommendations and opinions regarding the conformance of the completed grading to the intent of the plans, geotechnical engineering reports, and specifications.

REINFORCED CONCRETE INSPECTION AND LABORATORY MATERIALS TESTING

Reinforced Concrete Inspection

Our services will consist of inspection of reinforcing steel (rebar) and placement of concrete. Continuous inspection will be provided during the placing of concrete. These inspections will be performed to verify conformance with approved plans, specifications, and building codes. Services will include a written report presenting the applicable information. Our bid includes cost for overtime work on Saturdays.

Reinforced Concrete Materials Testing

Our services will consist of providing inspection and testing of concrete and reinforcing steel used in concrete construction for the project on and off site. Our ACI technician will fabricate a set of six test cylinders for each 100 cubic yards of structural concrete, for the first 500 cubic yards placed, then one set every 500 cubic yards thereafter. Slump tests shall be made of randomly selected batches in accordance with ASTM C143/C143M for each separate concrete mixture produced during each 8-hour or less period of

concrete production each day. Test cylinders will be cured in our laboratory until they are tested in accordance to ASTM C192. Compression tests would be performed in accordance to ASTM C39 at 7 and 28 days, respectively. Copies of the test results will be provided upon the completion of testing

STRUCTURAL STEEL (WELDING AND HIGH STRENGTH BOLTING)

We would provide an inspector that has been certified by AWS as a special inspector for welding. The work would consist of inspection of all welds during the field erection for compliance of the approved plans and job specifications and off site shop welding. Our services will consist of performing material identification of steel, reviewing welding procedures and inspection of in progress and completed welds for conformance to approved plans, specifications, and building codes. Daily reports of his inspections will be provided to the designated representative. He shall make a list of defective welds and a manner of correction of defects.

During the welding inspection, our inspector would also inspect the installation of the high strength bolts for conformance to the job specifications. Our inspector would check the materials, equipment, details of construction and installation procedure.

TERMS

We propose to perform the previously described services on an hourly or test rate basis in accordance to the attached fee schedule. Our estimate is based on our review of the project plans and specifications and on our general experience with similar projects and may vary due to circumstances that may develop during the course of the work. If a change in the scope of work becomes necessary due to extended construction duration and/or other unforeseen conditions, which will increase the charges, we will prepare written request for a change order for authorization before proceeding.

Our charges are directly related to construction duration, and therefore may vary due to unforeseen circumstances and or extended construction duration. Our estimate is as follows:

SERVICES	COST
Reinforced Concrete Testing and Inspections	\$13,066.00
Structural Steel	\$9,500.00
Total Estimated Cost	\$22,566.00

A breakdown of the above services is included on page 10 of this proposal.

PROFESSIONAL INSURANCE

We maintain the following insurance coverage. Certificates of insurance will be provided upon request. However, our professional liability insurance carrier (errors and omissions) will not name any additional insured.

- General liability \$1,000,000.00 limit
- Professional Liability \$1,000,000.00 limit
- Workmen's Compensation \$1,000,000.00 limit

CLOSURE

Thank you for the opportunity to submit this proposal. We look forward to working with you on this project and can begin our work upon receipt of your notice to proceed and receipt of a signed copy of this proposal authorizing us to perform these professional services. If you have any questions regarding this proposal please contact the undersigned Project Manager

Authorized By:
Saugus Union School District

Very truly yours,
RMA GeoScience



Mark Swiatek, P.G., C.E.G.
President

(Signature)

(Print or Type)

(Title)

(Date)

Attachments: Fee Schedule

PERSONNEL RATES

Professional and Office Staff

Staff Type Rate/Cost

Principal Engineer	\$160.00 /hour
Principal Geologist	\$160.00 /hour
Project Engineer	\$125.00 /hour
Project Geologist	\$125.00 /hour
Project Manager	\$120.00 /hour
Quality Control Manager	\$130.00 /hour
Qualified SWPPP Developer	\$135.00 /hour
Staff Engineer	\$100.00 /hour
Staff Geologist	\$100.00 /hour
Drafting	\$70.00 /hour
Administrative	\$40.00 /hour

Inspectors and Technicians

Staff Type Rate/Cost

Soils Engineering Technician	\$85.00 /hour
Public Works Technician	\$85.00 /hour
Laboratory Technician	\$75.00 /hour
Batch Plant Inspector	\$85.00 /hour
Public Works Inspector	\$100.00 /hour
Special Inspector	\$85.00 /hour
Special Inspector - Timber	\$100.00 /hour
Mechanical/ Electrical Inspector	\$100.00 /hour
Non-Destructive Testing (MT / UT) Level II	\$100.00 /hour
Non-Destructive Testing (MT/UT) Level III	\$175.00 /hour
Radiographic Testing Crew	\$275.00 /hour
Inspector of Record DSA Class I	\$110.00 /hour
Inspector of Record DSA Class II	\$100.00 /hour
Inspector of Record DSA Class III	\$95.00 /hour
Qualified SWPPP Practitioner	\$115.00 /hour
SWPPP Inspector	\$90.00 /hour
Field Supervisor	\$115.00 /hour
Pick-up and Delivery of Test Specimens	\$55.00 /hour

EXPLORATORY AND FIELD TESTING EQUIPMENT

<u>Description</u>	<u>Rate/Cost</u>
Dutch Cone Penetrometer with Operator	\$185.00 /hour
Hollow Stem Auger Drill Rig with Operator	\$250.00 /hour
Portable Drilling Equipment with Operator	\$275.00 /hour
Bucket Auger Drill Rig with Operator	\$300.00 /hour
Air Rotary Drill Rig with Operator	\$350.00 /hour
Rotary Wash Drill Rig with Operator	\$350.00 /hour
Diamond Bit Core Rig and Generator	\$200.00 /hour
Field Truck with Equipment	\$30.00 /day
Nuclear Density Test Gage	\$25.00 /day
Hand Held Turbidity Meter	\$15.00 /day
Ultrasonic Test Unit	\$25.00 /day
Magnetic Particle Test Unit	\$15.00 /day
Skidmore	\$30.00 /day
Schmidt Hammer	\$20.00 /day
Torque Wrench	\$20.00 /day
Proof Load Testing Equipment	\$45.00 /day
Slab Moisture Test Kit	\$50.00 /each
Profilograph with Data Recorder	\$265.00 /hour
pH Meter	\$10.00 /day

LABORATORY TESTS

Aggregate Tests

<u>Description</u>	<u>Rate/Cost</u>
ASTM C131 Abrasion, Los Angeles Rattler	\$190.00 /each
ASTM C40 Organic Impurities in Fine Agg	\$95.00 /each
ASTM D4791 Flat & Elongated Particles	\$225.00 /each
ASTM D5821 Percent Fractured Particles	\$100.00 /each
ASTM C123 Percent Lightweight Particles	\$200.00 /each
ASTM C566 Moisture Content by Drying	\$18.00 /each
ASTM C1252 Angularity and Voids in Fine Agg	\$125.00 /each
ASTM C117 Materials Finer than No. 200	\$65.00 /each
ASTM C289 Alkali Silica Reaction	\$350.00 /each
ASTM D2419 Sand Equivalent Value	\$100.00 /each
ASTM C136 Sieve Analysis-Combined Sample	\$145.00 /each
ASTM C136 Sieve Analysis-Fine Aggregate	\$125.00 /each
ASTM C136 Sieve Analysis-Coarse Aggregate	\$110.00 /each
ASTM C88 Soundness by Sodium Sulfate	\$375.00 /each
ASTM C127 Specific Gravity of Coarse Agg	\$95.00 /each
ASTM C128 Specific Gravity of Fine Agg	\$130.00 /each
ASTM C142 Clay and Friable Particles	\$190.00 /each
AASHTO T304 Angularity and Voids in Fine Agg	\$125.00 /each

Asphalt Tests

<u>Description</u>	<u>Rate/Cost</u>
ASTM D2726 Core Density (SSD)	\$30.00 /each
ASTM D1188 Core Density Parafilm Coated	\$35.00 /each
ASTM D6926 Lab Max Density Marshall Method	\$195.00 /each
ASTM D6927 Marshall Stability and Flow	\$290.00 /each
ASTM D1561 LTMD Kneading Compactor	\$220.00 /each
ASTM D1560 Hveem Stability	\$205.00 /each
ASTM D1560 Hveem Stability and Density	\$245.00 /each
ASTM D2041 Maximum Theoretical Density	\$175.00 /each
ASTM D6307 Asphalt Content by Ignition	\$135.00 /each
ASTM D6307 Ignition Oven Calibration	\$250.00 /each
ASTM D2172 Asphalt Content by Solvents	\$200.00 /each
ASTM D4125 Asphalt Content by Nuclear Gauge	\$175.00 /each
ASTM D 5444 Gradation of Extracted Aggregate	\$150.00 /each
ASTM D244 Emulsion Residue, Evaporation	\$175.00 /each
ASTM D244 Emulsion Sieve Analysis	\$115.00 /each
ASTM D3910 Wet Tract Abrasion	\$150.00 /each
AASHTO T283 Tensile Strength Ratio	\$750.00 /each

Concrete Tests

<u>Description</u>	<u>Rate/Cost</u>
Mix Design Review – Calculations Only	\$300.00 /each
ASTM C39 Concrete Cylinder Cured or Tested	\$27.00 /each
ASTM C39 Cylinder Tested out of Sequence	\$45.00 /each
ASTM C42 Compressive Strength - Core	\$65.00 /each
ASTM C495 Lightweight Concrete Strength	\$45.00 /each
ASTM C78 Flexural Strength - Beam	\$85.00 /each
ASTM C39 Gunite Cyl Compression Test	\$35.00 /each
ASTM C1140 Shotcrete Panel Test	\$250.00 /each
ASTM C649 Concrete Modulus of Elasticity	\$225.00 /each
ASTM C157 Linear Shrinkage (Set of 3)	\$430.00 /each
ASTM C138 Unit Weight of Concrete	\$55.00 /each
ASTM C496 Splitting Tensile Test	\$90.00 /each
AASHTO T 336 Coefficient of Thermal Expansion	\$500.00 /each

Caltrans Tests

Description	Rate/Cost
CT 202 Sieve Analysis-Combined Sample	\$145.00 /each
CT 202 Sieve Analysis-Fine Aggregate	\$125.00 /each
CT 202 Sieve Analysis-Coarse Aggregate	\$110.00 /each
CT 204 Plasticity Index Atterberg	\$195.00 /each
CT 205 Percentage Crushed Particles	\$125.00 /each
CT 206 Specific Gravity of Coarse Aggregate	\$95.00 /each
CT 207 Specific Gravity of Fine Aggregate	\$130.00 /each
CT 208 Apparent Specific Gravity of Fines	\$145.00 /each
CT 209 Specific Gravity of Soils	\$175.00 /each
CT 211 Abrasion by Los Angeles Rattler	\$190.00 /each
CT 213 Organic Impurities in Sand	\$95.00 /each
CT 214 Soundness by Sodium Sulfate	\$375.00 /each
CT 216 California Impact Max Density	\$175.00 /each
CT 216 CA Impact Max Dens - Rock Correction	\$45.00 /each
CT 217 Sand Equivalent Value	\$100.00 /each
CT 226 Moisture Content by Oven Drying	\$12.00 /each
CT 227 Cleanness Value	\$225.00 /each
CT 229 Durability Index	\$275.00 /each
CT 234 Angularity & Voids Fine Aggregate	\$125.00 /each
CT 235 Flat and Elongated Particles	\$225.00 /each
CT 301 Resistance R-Value Stabilometer	\$295.00 /each
CT 303 Approximate Bitumen Ratio	\$250.00 /each
CT 304/308 LTMD Kneading Compactor	\$220.00 /each
CT 305 Swell of Bituminous Mixtures	\$285.00 /each
CT 308 (A) Core Density Paraffin Coated	\$35.00 /each
CT 308 (C) Core Density SSD	\$30.00 /each
CT 308, CT 366 Stability & Density	\$245.00 /each
CT 309 Maximum Theoretical Density	\$175.00 /each
CT 366 Stabilometer Value	\$205.00 /each
CT 370 Moisture Content by Microwave	\$75.00 /each
CT 371 Tensile Strength Ratio	\$1,100.00 /each
CT 379 Asphalt Content Nuclear Gauge	\$175.00 /each
CT 382 Asphalt Content, Correction Factor	\$250.00 /each
CT 382 Asphalt Content by Ignition Oven	\$135.00 /each
CT 417 Soluble Sulfates	\$45.00 /each
CT 422 Chloride Content	\$60.00 /each
CT 515 Relative Mortar Strength, PCC Sand	\$600.00 /each
CT 521 Concrete Compressive Strength	\$27.00 /each
CT 523 Conc Flexural Strength - Beam	\$85.00 /each
CT 531 Length of Drilled Concrete Cores	\$45.00 /each
CT 534 Water Retention, Liq Curing Cmpnd	\$425.00 /each
CT 550 Surface Abrasion of Concrete	\$400.00 /each
CT 643 Resistivity and pH	\$95.00 /each

Masonry Tests

Description	Rate/Cost
ASTM C140 Block Compressive Strength	\$65.00 /set
ASTM C140 Block Moisture & Absorption	\$75.00 /set
ASTM C426 Block Linear Shrinkage	\$275.00 /set
ASTM C140 Block Unit Wt & Dimensions	\$195.00 /set
ASTM C90 Masonry Block Conformance	\$550.00 /set
ASTM C67 Brick Compressive Strength	\$85.00 /set
ASTM C67 Brick Moisture & Absorption	\$75.00 /set

Masonry Tests (cont'd)

Description	Rate/Cost
ASTM C67 Brick 5 Hour Boil	\$95.00 /each
ASTM C67 Brick Modulus of Rupture	\$95.00 /each
ASTM C780 Mortar Cylinder Compression	\$30.00 /each
ASTM C1019 Grout Prism Compression	\$30.00 /each
ASTM C1314 Masonry Core Cmp Str 8" max dia	\$65.00 /each
ASTM C1314 Masonry Core Shear 8" max dia	\$75.00 /each
ASTM E519 Assemblage Comp Str 8" Block	\$85.00 /each
ASTM E519 Assemblage Comp Str 12" Block	\$100.00 /each
ASTM E519 Assemblage Comp Str 16" Block	\$125.00 /each
ASTM C109 Compression Test 2" Cube	\$30.00 /each

Soils Tests

Description	Rate/Cost
ASTM D4318 Plasticity Index of Soils	\$125.00 /each
ASTM D1883 CA Bearing Ratio of Soils	\$450.00 /each
ASTM D2435 Consolidation	\$200.00 /each
ASTM D2435 Consolidation, with Time Rate	\$250.00 /each
ASTM D3080 Direct Shear, Consol & Drained	\$200.00 /each
ASTM D4829 Expansion Index of Soils	\$150.00 /each
ASTM D2166 Unconfined Comp Strength	\$250.00 /each
ASTM D2434 Const Head Permeability Test	\$350.00 /each
ASTM D5333 Hydro-Collapse Potential	\$175.00 /each
ASTM D2050 Tri-Axial Shear Strength	\$350.00 /each
ASTM D422 Hydrometer Analysis	\$250.00 /each
ASTM D854 Specific Gravity of Soils	\$175.00 /each
ASTM 4546 Swell Potential	\$175.00 /each
ASTM D4943 Shrinkage Factor by Resin	\$190.00 /each
ASTM D559 Soil Cement Sample Preparation	\$75.00 /each
ASTM D558 Soil Cement Maximum Density	\$200.00 /each
ASTM D1633 Compression Test Soil Cement	\$55.00 /each
ASTM D2937 In-Place Density, Drive Cylinder	\$20.00 /each
ASTM D2216 Soil Moisture Content by Mass	\$8.00 /each
ASTM D698 Maximum Density Std Effort	\$175.00 /each
ASTM D1557 Max Density Optimum Moisture	\$175.00 /each
ASTM D2974 Moisture, Ash, Organic Matter	\$75.00 /each
ASTM D4972 pH of Soils	\$50.00 /each
ASTM D2844 R-Value & Expansion Pressures	\$295.00 /each
ASTM D2419 Sand Equivalent	\$100.00 /each
ASTM D422 Sieve Analysis of Soils	\$145.00 /each
ASTM D1140 Materials Finer than #200	\$50.00 /each

Steel Tests

Description	Rate/Cost
ASTM A370 Tension & Bend - Rebar up to #11	\$95.00 /each
ASTM A370 Tension & Bend - Rebar #14	\$125.00 /each
ASTM A370 Tension & Bend - Rebar #18	\$175.00 /each
ASTM A370 Tension Test - Structural Steel	\$75.00 /each
ASTM A370 Bend Test - Structural Steel	\$65.00 /each
ASTM A370 Mechanical Splice / Slip Test	\$130.00 /each
ASTM A370 Control Bar	\$75.00 /each
CT 52-1-08C Slip Test	\$165.00 /each
ASTM E605 Spray Applied Fireproofing Density	\$75.00 /each

General Charges

- RMA GeoScience requires twenty-four (24) hour prior notification for scheduling inspectors and/or technicians.
- Inspection charges start at the scheduled show up time at the job site. All inspection hours will be billed in the following increments:
 - There will be a minimum two (2) hour charge for any RMA GeoScience employee presence on site.
- When personnel are required to work in excess of 5 hours without an uninterrupted meal period of 30 minutes, due to project constraints, ½ hour will be charged at double time rates in addition to any applicable hours worked.
- Rates are valid through June 30, 2017. Rates for personnel will increase by 3% per year on July 1st of each subsequent year.
- Administrative/clerical support will be charged at 5% of the monthly direct charges.
- Certified Payroll Reports will be prepared upon request. There will be a \$75.00 charge for each certified payroll report.
- Outside services will be billed at cost plus 15% unless billed directly to and paid for by Client.
- Requests made by client for management attendance at meetings at the project site will be charged at standard rate.

Overtime Charges

- Work performed in excess of 8 hours per day and/or up to eight (8) hours on Saturdays will be billed at 1.5 times the unit rate.
- Work performed on Sunday, recognized holidays, or in excess of eight (8) hours on Saturdays will be billed at 2.0 times the unit rate.
- A 20% surcharge will be applied for laboratory tests performed on a Saturday or Sunday.

Per Diem and Travel Charges

- An \$85.00 charge per day will be applied when our personnel are required to stay overnight at remote locations.
- Time will be billed at the unit rate while traveling to a remote location or if a location requires an overnight stay
- Mileage for travel outside a 50 mile radius from either the project site or the nearest RMA facility whichever is closest, will be charged at a rate of \$0.55 per mile.

Night Work

- A \$10.00 per hour surcharge will be added to all personnel rates for work performed during night shifts.
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REINFORCED CONCRETE TESTING AND INSPECTIONS

Item	Quantity	Unit	Unit Price	Amount
Concrete Special Inspection	60	Hr	\$95.00	\$5,700.00
Concrete Secial Inspection OT Rate	24	Hr.	\$142.50	\$3,420.00
Laboratory Testing, Curing & Compres Strgth	24	Hr	\$27.00	\$1,296.00
Cylinder Pick Up and Delivery	30	Hr	\$55.00	\$1,650.00
Project Engineer	8	Hr	\$125.00	\$1,000.00
TOTAL CONCRETE				\$13,066.00

SPECIAL INSPECTIONS FOR STRUCTURAL STEEL

Item	Quantity	Unit	Unit Price	Amount
Field Welding	100	Hr	\$95.00	\$9,500.00
TOTAL CONCRETE				\$9,500.00

TOTAL **\$22,566.00**