

INTEROFFICE MEMORANDUM

DATE: 9/19/18

TO: Mayor and Council

FROM: Keith Helmuth, City Engineer *kh*

SUBJECT: Late Distribution 9/19/18 Agenda
Items B-4 and B-5 Exhibits for On-Demand Services Agreements (2)

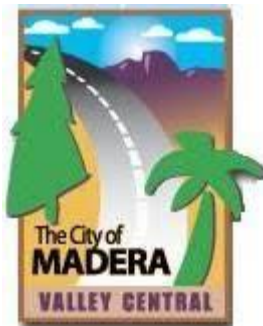
Attached are Exhibits A and B for agenda items B-4 (agreement with Krazan and Associates) and Item B-5 (agreement with Moore Twining Associates, Inc.). The exhibits were not available at the time of final distribution of the agenda packet.

Thank You.

C: City Administrator
City Attorney
Community Development Director



2018 Prevailing Wage Fee Schedule for The City of Madera Fire Station #58



Moore Twining Associates, Incorporated
www.mooretwining.com



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Introduction

Moore Twining Associates, Inc. (Moore Twining), founded in 1898, has continually provided professional consulting and analytical services throughout California for the past 120 years. Moore Twining provides professional services in geotechnical



engineering, environmental services, construction inspection, materials testing, drilling services, and analytical chemistry.

Offices are maintained in Riverside, Fresno, Monterey (Sand City), and Sacramento, with the Fresno office also serving as the corporate headquarters. Our professional staff consists of registered geotechnical engineers,

registered civil engineers, registered professional geologists, certified engineering geologists, chemists, certified field inspectors, laboratory technicians, and administrative personnel.

Our reputation for service and integrity is known by individuals involved in all aspects of the engineering and testing industries throughout California. We take pride in providing our clients with consistently reliable and cost-effective services.

Office Locations

Fresno (Corporate Headquarters)	2527 Fresno Street Fresno, California 93721 Phone: 559.268.7021 Fax: 559.268.7126
<i>Chemistry Division Fax:</i>	559.268.0740
Riverside	11800 Sterling Ave., Suite C Riverside, California 92503 Phone: 951.898.8932 Fax: 951.898.8974
Monterey	501 Ortiz Avenue Sand City, California 93955 Phone: 831.392.1056 Fax: 831.392.1059
Sacramento	165 Commerce Circle, Suite D Sacramento, California 95815 Phone: 916.381.9477 Fax: 916.381.9478

Basis of Fees

1. Fees stated in this fee schedule are for professional services, construction inspection, drilling and materials testing services provided by Moore Twining Associates, Inc. Analytical Chemistry fees are presented separately upon request.
2. The fees listed herein are typical of engineering, inspection, and testing services most frequently provided by Moore Twining Associates, Inc. Fees for other services and special quotations will be provided upon request. Special consideration is given to projects involving protracted periods of time or volume testing. All fees are subject to change without notice.
3. A minimum of four hours per day will be charged for all field services plus travel time to and from the job site. Field services over four hours will be charged at two-hour increments thereafter. A cancellation charge of two hours will be billed in the event the client fails to notify our office of a cancellation at least 24 hours prior to the scheduled inspection.
4. Time Schedule: Basis of sampling, observation, drilling, travel, and other fees:

Rate of Changes Period

Regular Time Monday through Friday – eight hours from 8:00 a.m. to 5:00 p.m.

Time and One-Half Monday through Friday – after continuous eight hours and Saturdays

Double Time Work performed beyond 12 hours, Sundays and Holidays

Shift Differential

Second (Swing) Shift Regular hourly rate plus 10% for the first eight hours worked; time in excess of eight hours will be charged at overtime rate

Third (Graveyard) Shift Regular hourly rate plus 15% for the first eight hours worked; time in excess of eight hours will be charged at overtime rate

5. Fees reflect per-unit test and only include reporting of laboratory and/or field results not requiring engineering evaluation, recommendations, and/or conclusions.
6. Vehicle mileage, when applicable, is \$0.54 per mile. Drill rig, heavy equipment trucks, and four-wheel drive vehicles are \$1.00 per mile. All vehicle mileage charges (except for drill rigs) are from Moore Twining Associates, Inc.'s nearest office. Drill rigs are from our Drilling office located at 662 R Street in Fresno, California.
7. Work requiring special equipment, machinery rental, outside consultants, etc., will be charged at cost-plus-15% unless otherwise noted. The cost of replacing equipment that is damaged due to client's request and/or negligence will be assessed.
8. For delivery of additional materials and/or equipment to the job site, pick-up of materials requested, and/or equipment ordered but not used, there will be a charge of \$70/hour. There will be a restocking fee of 20% on all materials returned. Any special rental equipment such as air compressors, generators, cement mixers, etc. can be provided at cost-plus-15%, plus pick-up and delivery charges. Other equipment necessary to meet your project's special needs can be obtained upon request. Clients ordering specialized materials will be billed for the full amount of purchase regardless of utilization of only a portion thereof.

9. Staff billing rates will be imposed for requested research into technical files or records.
10. Requests for additional copies of reports are charged at secretarial rate plus photocopying fee of \$0.10 per page.
11. Facsimiles are charged at \$1.00 per page for local calls and \$1.50 for long-distance calls.
12. Public carriers, i.e. overnight mail, FedEx, UPS, Greyhound, etc. will be charged at cost plus secretarial time.
13. Processing of affidavits and certificates are charged at \$50 for each additional insured.
14. Additional insured certificates are charged at \$50 for each additional insured.
15. Certified payroll, \$50 per billing period.
16. The client will be invoiced for all services, equipment, materials, and supplies used on a project. Any invoice under \$100 will be C.O.D. All other invoices are due and payable on the 10th of the next succeeding month following date of charge and are past-due thereafter. Past-due balances are subject to a finance charge of 1.5% per month (an annual percentage rate [APR] of 18%). All invoice errors or necessary corrections will be brought to the attention of the company within ten days of receipt of the invoice; thereafter, client acknowledges invoices are correct and valid.
17. The unit rates provided in this fee schedule will be applicable through December 31, 2018.

Northern California Prevailing Wage Fee Schedule

PROFESSIONAL			
Principal	\$	150.00	Hour
Registered Geotechnical Engineer	\$	125.00	Hour
Registered Civil Engineer	\$	120.00	Hour
Certified Engineering Geologist	\$	110.00	Hour
Project Geologist	\$	90.00	Hour
Project Manager	\$	65.00	Hour
SUPPORT STAFF			
Computer Aided Drafting	\$	45.00	Hour
Secretarial Services	\$	35.00	Hour
FIELD INSPECTION FEES			
ACI Technician – Field Sampling and Testing Concrete	\$	89.50	Hour
Earthwork Observation and Compaction Testing	\$	94.50	Hour
Special Inspection and Observations – Reinforced Concrete	\$	99.50	Hour
Special Inspection and Observations – Structural Masonry	\$	99.50	Hour
Special Inspection and Observations – Structural Steel	\$	99.50	Hour
Non-Destructive Testing Services	\$	105.00	Hour
Spray-Applied Fireproofing	\$	89.50	Hour
Batch Plant Inspection	\$	55.00	Hour
Shop Welding and Steel Fabrication Inspection	\$	55.00	Hour
Sample Pickup (if special trip is required)	\$	50.00	Hour
Vehicle Mileage	\$	0.54	Mile
Vehicle & Equipment Charge	\$	25.00	Day
Per Diem	\$	150.00	Day
MATERIALS TESTING FEES			
AGGREGATES		TEST METHOD	
Sieve Analysis without Wash ASTM C136	\$	60.00	Each
Sieve Analysis with Wash ASTM C117	\$	120.00	Each
% Passing #200 Sieve ASTM C117	\$	60.00	Each
Specific Gravity & Absorption (Coarse) ASTM C127	\$	120.00	Each
Specific Gravity & Absorption (Fine) ASTM C128	\$	120.00	Each
Clay Lumps and Friable Particles ASTM C142	\$	150.00	Each
Cleanness Value CT 229	\$	120.00	Each
% of Crushed Particles (Fractured Face) ASTM D5821	\$	130.00	Each
Durability Index CT229	\$	120.00	Each
LA Rattler Abrasion Testing ASTM C535	\$	180.00	Each
Organic Impurities ASTM C40	\$	80.00	Each
Potential Reactivity -Chemical Method ASTM C289	\$	300.00	Each
Magnesium or Sodium Sulfate Soundness ASTM C88	\$	300.00	Each
Sand Equivalent ASTM D2419	\$	90.00	Each

Lightweight Pieces in Concrete Aggregate ASTM C123	\$	225.00	Each
Stone Proctor ASTM C29	\$	50.00	Each
Flat & Elongated Particles in Coarse Aggregate AST C4791	\$	120.00	Each
ASPHALT			
Marshall Density- Lab Mix Method ASTM D6926	\$	240.00	Each
Asphalt Extraction (Ignition Method) ASTM C6307	\$	150.00	Each
Asphalt Gradation and Extraction ASTM C5444	\$	120.00	Each
Maximum Theoretical Density/Rice Specific Gravity ASTM D2041	\$	150.00	Each
Hveem Stability ASTM D5160	\$	150.00	Each
Marshall Flow and Stability ASTM C6927	\$	200.00	Each
Bulk Density Testing of Cores ASTM D1188 or ASTM D2726	\$	40.00	Each
Swell CT 305	\$	225.00	Each
Moisture Vapor Susceptibility CT307	\$	150.00	Each
Asphalt Extraction (Solvent Method) ASTM D2172	\$	200.00	Each
Gradation and Oil Extraction Correction	\$	500.00	Each
Asphalt Core Thickness ASTM D3549	\$	20.00	Each
CONCRETE			
Concrete Compressive Strength Tests 6"x12" (Set of 4) ASTM C39	\$	70.00	Set of 4
Concrete Compressive Strength Test 6"x12" ASTM C39	\$	20.00	Each
Concrete Compressive Strength Test 6"x12" ASTM C39, held not tested	\$	10.00	Each
Compressive Strength of Concrete Cores ASTM C42	\$	50.00	Each
Flexural Strength Beam ASTM C78	\$	70.00	Each
Splitting Tensile Strength of Cylindrical Concrete ASTM C496	\$	50.00	Each
Unit Weight of Lightweight Concrete ASTM C567	\$	25.00	Each
Compressive Strength of Lightweight Concrete ASTM C495	\$	25.00	Each
Dry Shrinkage of Concrete ASTM C157	\$	250.00	Each
Gunite/Shotcrete Panels ASTM C1140	\$	250.00	Each
Preparation of Concrete Specimens by Saw Cutting	\$	20.00	Each
Concrete Compressive Strength Test 4"x8" (set of 5) ASTM C39	\$	80.00	Set of 5
Concrete Compressive Strength Test 4"x8" ASTM C39	\$	20.00	Each
Thickness of Drilled Concrete Core ASTM C174	\$	50.00	Each
Moisture Transmission & pH Test Kits	\$	50.00	Each
Concrete Cylinder HOLD (Not Tested)	\$	10.00	Each
Bit Charge	\$	7.00	Inch
SOILS			
Atterberg Limit/Plasticity Index ASTM D4319	\$	150.00	Each
Hydrometer Analysis ASTM D422	\$	120.00	Each
Specific Gravity ASTM D854	\$	90.00	Each
R-Value ASTM D2844	\$	200.00	Each
Consolidation ASTM D2435	\$	300.00	Each

Unconfined Compressive Strength ASTM D2166	\$	100.00	Each
Direct Shear- Consolidated ASTM D3080	\$	200.00	Each
Expansion Index of Soils ASTM D4829	\$	170.00	Each
Moisture Determination of Soil and Rock ASTM D2216	\$	30.00	Each
Permeability Flexible Wall ASTM D5084	\$	335.00	Each
pH of Soils	\$	30.00	Each
Sulphate Content of Soils	\$	30.00	Each
Chloride Content of Soils	\$	30.00	Each
Minimum Resistivity CT643	\$	110.00	Each
CBR, 100% ASTM D1883	\$	350.00	Each
CBR 95%, 3 point method ASTM D1883	\$	700.00	Each
Remold Charge	\$	50.00	Each
Oversized Correction for Moisture Density ASTM D4718	\$	180.00	Each
Crumb Test ASTM D6572	\$	50.00	Each
Atterberg Limit (Liquid Limit) ASTM D4318	\$	75.00	Each
Maximum Density Standard Proctor ASTM D698	\$	135.00	Each
Maximum Density Modified Proctor 4" Mold ASTM D1557	\$	170.00	Each
Maximum Density Modified Proctor 6" Mold ASTM D1557	\$	180.00	Each
Relative Compaction of Soils and Aggregate CT 216	\$	150.00	Each
Unconfined Compressive Strength of Lime Treated Soils CT 373	\$	150.00	Each
MASONRY			
Mortar Cylinder Compressive Strength 2x4 ASTM C780	\$	24.00	Each
Grout Compressive Strength ASTM C1019	\$	24.00	Each
Prism Compressive Strength, 1/2 Size	\$	30.00	Each
Masonry Core Unit Strength ASTM C1314	\$	50.00	Each
Masonry Core Shear Test ASTM C1314	\$	50.00	Each
Masonry Block Compressive Strength ASTM C140	\$	75.00	Each
Absorption, Unit Weight and Moisture Content ASTM C140	\$	75.00	Each
Drying Shrinkage of Block ASTM C426	\$	75.00	Each
Relative Mortar Strength CT 515	\$	250.00	Each
High Strength Grout Cubes ASTM C109	\$	18.00	Each
STEEL			
Rebar Tensile Test ASTM A370	\$	40.00	Each
Rebar Bend Test ASTM A290	\$	40.00	Each
Rebar Tensile and Bend Test ASTM A370 and A290	\$	80.00	Each
7 Strand Wire Cables ASTM A416	\$	150.00	Each
FIREPROOFING			
Fireproofing Dry Density ASTM E605	\$	50.00	Each

DRILLING DEPARTMENT**Northern California Prevailing Wage Drilling Services**

CME-75 Drill Rig with Two Man Crew			
Operating Rate* (add \$5/hour for 10" Auger)	\$	230.00	Hour
Level C1 Add**	\$	35.00	Hour
Travel Time (FOB Fresno Office)	\$	200.00	Hour
Mobilization and Demobilization	\$	110.00	Hour
Standby	\$	175.00	Hour
Mileage (Drill Rig) (From Fresno Office)	\$	1.00	Mile
Flatbed Support Vehicle	\$	1.00	Mile
Truck	\$.575	Mile
Service Truck Rental	\$	250.00	Day
Equipment and Material Fees			
Steam Cleaner	\$	125.00	Day
Air Compressor	\$	125.00	Day
Hydro Punch II		By Quote	
55 Gallon Drums	\$	60.00	Each
Brass Sleeves w/plastic end caps	\$	6.00	Each
Obtaining Drilling Permits	\$	70.00	Hour
Pre-Steamed Clean Auger/Equipment			
50 feet or less	\$	100.00	Each
51 feet to 100 feet	\$	200.00	Each
Well Materials	\$	Cost + 15%	
Concrete for Backfill Material	\$	Cost + 15%	
Parts Replacement	\$	Cost + 15%	

* Drilling Under Level D Personal Health and Safety Protection - Normal Work Uniform, Coveralls

** Drilling Under Level C Personal Health and Safety Protection - Disposable, Chemically Resistant Clothing; Air-purifying Respirator, Health and Safety Protection - Fully Encapsulated, Including Supplied-air Respirators



September 14, 2018

MTP Number: 1027-18

Mr. Jerry Martinez
 City of Madera
 204 West 4th Street
 Madera, California 93637

Project: Fire Station #58
 2558 Condor Drive
 Madera, California

Subject: Special Inspection Services

Dear Mr. Martinez:

Our firm has performed a preliminary review of the project plans provided by the City of Madera for the new Fire Station #58 project. Based on our review of the project plans prepared by RRM Design Group, dated July 17, 2018. The new Fire Station #58 project is anticipated to require the following materials testing and special inspections:

- Earthwork;
- Reinforcing Steel;
- Structural Concrete;
- Post-Installed Anchors;
- Portland Cement Concrete;
- Structural Masonry;
- Structural Steel;
- Structural Wood; and
- Laboratory Testing of Soils, Concrete, Mortar, and Grout.

Moore Twining Associates, Inc. is certified as a Materials Testing and Special Inspection agency by AMRL, CCRL and DSA (State of California Division of the State Architect). The DSA certification lab number for our Fresno office is LEA #65.

We trust this information meets your needs. If you have any questions regarding this letter, please contact our office at (559) 268-7021.

Sincerely,
MOORE TWINING ASSOCIATES, INC.
 Construction Inspection Division

Tyler Street, EIT
 Project Engineer

CENTRAL VALLEY

2527 Fresno Street
 Fresno, CA 93721
 559-268-7021 • 559-268-7126 Fax

CENTRAL COAST

501 Ortiz Avenue
 Sand City, CA 93955
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165 Commerce Circle, Suite D
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