

COTTONWOOD HEIGHTS

RESOLUTION No. 2022-36

A RESOLUTION APPROVING THE FIRST AMENDMENT TO AN AGREEMENT FOR GEOLOGIC AND GEOTECHNICAL CONSULTING SERVICES WITH GEOSTRATA ENGINEERING & GEOSCIENCES LLC

WHEREAS, the city council (the "Council") of the city of Cottonwood Heights (the "City") met in regular session on 5 July 2022 to consider, among other things, approving the first amendment (the "Amendment") to an agreement for geologic and geotechnical consulting services between the City and GeoStrata Engineering & Geosciences LLC f/k/a GeoStrata LLC ("Contractor"); and

WHEREAS, the Council has reviewed the form of the Amendment, a photocopy of which is annexed hereto; and

WHEREAS, after careful consideration, the Council has determined that it is in the best interests of the health, safety and welfare of the citizens of the City to approve the City's entry into the Amendment as proposed;

NOW, THEREFORE, BE IT RESOLVED by the Cottonwood Heights city council that the attached Amendment is hereby approved, and that the City's mayor and recorder are authorized and directed to execute and deliver the Amendment on behalf of the City.

This Resolution, assigned no. 2022-36, shall take effect immediately upon passage.

PASSED AND APPROVED effective 5 July 2022.

ATTEST:

COTTONWOOD HEIGHTS CITY COUNCIL

By: Paula Melgar, Recorder



By: Michael T. Weichers, Mayor

VOTING:

| | | |
|---------------------|---|------------------------------|
| Michael T. Weichers | Yea <input checked="" type="checkbox"/> | Nay <input type="checkbox"/> |
| Douglas Petersen | Yea <input checked="" type="checkbox"/> | Nay <input type="checkbox"/> |
| J. Scott Bracken | Yea <input checked="" type="checkbox"/> | Nay <input type="checkbox"/> |
| Shawn E. Newell | Yea <input checked="" type="checkbox"/> | Nay <input type="checkbox"/> |
| Ellen Birrell | Yea <input checked="" type="checkbox"/> | Nay <input type="checkbox"/> |

DEPOSITED in the office of the City Recorder this 5th day of July 2022.

RECORDED this 6th day of July 2022.

First Amendment to Agreement for Geologic and Geotechnical Consulting Services

THIS FIRST AMENDMENT TO AGREEMENT FOR GEOLOGIC AND GEOTECHNICAL CONSULTING SERVICES (this "*Amendment*") is made effective 5 July 2022 by **COTTONWOOD HEIGHTS**, a Utah municipality whose address is 2277 East Bengal Blvd., Cottonwood Heights, UT 84121 ("*City*"), and by **GEOSTRATA ENGINEERING & GEOSCIENCES LLC**, a Utah limited liability company whose address is 14425 South Center Point Way, Bluffdale, UT 84065 ("*Consultant*"). In this Agreement, City and Consultant are each a "*party*" and collectively are the "*parties.*"

RECITALS:

A. Effective 26 November 2013 the parties entered into an agreement (the "*Agreement*") previously approved by City's governing body pursuant to its Resolution 2013-51 whereunder Consultant agreed to provide expert geologic, geotechnical and other similar professional services to City.

B. The parties now desire to amend the Agreement as provided in this Amendment.

AGREEMENT:

NOW, THEREFORE, in consideration of the premises, the mutual covenants and undertakings of the parties hereto, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereby agree as follows:

Section 1. **Defined Terms.** Unless otherwise defined in this Amendment, all capitalized "terms of art" in this Amendment shall have the same meanings and definitions as in the Agreement.

Section 2. **City's Designees.** Those who are authorized to request services from Consultant under the Agreement are amended from the individuals named in the last sentence of the "Scope of Work" section of the Agreement to those then holding the offices of City manager, City engineer, City public works director, City director of community and economic development, or other responsible members of City staff designated by one of the foregoing in writing.

Section 3. **Payment Schedule.** The rates and fee schedules set forth in the Agreement are hereby amended and superseded by those specified on attached Exhibit A.

Section 4. **No Other Modifications.** Except as specifically amended in this Amendment, the terms of the Agreement shall remain unmodified and in full force and effect between the parties.

DATED effective the date first-above written.

CONSULTANT:

GEOSTRATA ENGINEERING & GEO-SCIENCES LLC, a Utah limited liability company

By: _____
Timothy J. Thompson, Manager

CITY:

COTTONWOOD HEIGHTS

ATTEST:

By:  _____
Paula Melgar, Recorder



By:  _____
Michael T. Weichers, Mayor

Exhibit to First Amendment to Agreement for
Geologic and Geotechnical Consulting Services

(Attach Consultant's "2022 Rate Schedule and Lab Charges")



2022 Rate Schedule and Lab Charges

The compensation to GeoStrata for our professional geotechnical engineering, geologic, and environmental services is based upon the following elements:

Personnel

| | |
|---|----------|
| Expert Witness (per hour) | \$245.00 |
| Senior Consultant (per hour) | \$190.00 |
| Principals (per hour) | \$190.00 |
| Senior Engineers (per hour) | \$150.00 |
| Senior Geologists (per hour) | \$150.00 |
| Project Engineers (per hour) | \$135.00 |
| Project Geologists (per hour) | \$135.00 |
| Staff Engineers (per hour) | \$120.00 |
| Staff Geologists (per hour) | \$120.00 |
| Environmental Scientist (per hour) including asbestos inspections, soil sampling, ground water sampling | \$115.00 |
| GIS/Auto CAD Operator (per hour) | \$85.00 |
| Project Manager (per hour) | \$100.00 |
| Word Processing and Clerical (per hour) | \$55.00 |
| Assistant Professionals (per hour) | \$85.00 |
| Senior Field/Laboratory Technicians (per hour) | \$65.00 |
| Field/Laboratory Technician (per hour) | \$55.00 |
| Building Inspector (per hour) | \$90.00 |
| Welding Inspector (per hour) | \$90.00 |
| ICC Special Inspector (per hour) Structural Steel, Bolting, Epoxy Structural Masonry, EIFS, Reinforced Concrete, Post Tension Concrete, Suspended Ceilings, Fire Proofing | \$85.00 |

Miscellaneous Expenses

| | |
|------------------------------|---------------|
| Letter of Subrogation | price per job |
| In-House printing (per page) | \$0.15 |
| Plotting (per plot) | \$35.00 |

Equipment

| | |
|--|---------------|
| Company Vehicle (per day) | \$65.00 |
| Mileage (per mile) | \$1.00 |
| Per diem (per day) | Price per job |
| Mobilization/Demobilization | Price per job |
| Truck Mounted Drill Rig (per hour) | Cost plus 20% |
| Tracked Excavator (per hour) | Cost plus 20% |
| Rubber Tired Backhoe (per hour) | Cost plus 20% |
| Core Rig Rental (per day) | \$90.00 |
| Generator Rental (per day) | \$60.00 |
| Soils Laboratory Rental (per day) | \$125.00 |
| Asphalt Laboratory Trailer Rental (per day) | \$220.00 |
| Tieback/Soil nails testing (per day) | \$120.00 |
| Consumables (Dye Penetrant, Magnetic Particle, etc.) | Cost plus 20% |
| Ultrasonic Examination and Magnetic Particle, Torque Wrench (per hour) | \$90.00 |
| Continuous Soil Sampling (additional per hour) | \$25.00 |
| Soil Sample Containers (per container) | \$20.00 |
| Sand Cone (per test) | \$40.00 |
| Vibration Monitoring (per day) | \$250.00 |
| Inclinometer Measurement (per day) | \$225.00 |
| SSRI-Sealed Single Ring Infiltrometer (per day per ring) | \$30.00 |
| GIS/Auto CAD 7 Terrain modeling software (per hour) | \$40.00 |
| Geophysics-Seismic, Televiewer, ER IP, etc. (per day) | Cost plus 20% |
| Sub-contracted work and other Costs incurred with outside services, equipment or consumables | Cost plus 20% |
| Environmental sampling pumps | Cost plus 20% |
| Environmental consumable field supplies | Cost plus 20% |
| Quality Control Plan | \$285.00 |

GeoStrata

2022 Rate Schedule and Lab Charges

Exhibit A

Asphalt

| | |
|---------------------------------|------------|
| Burn/Gradation and oil content | \$150.00 |
| Rice | \$90.00 |
| Field Marshall (set of 3 pucks) | \$350.00 |
| Stability & Flow | \$80.00 |
| Gyro Pucks (set of 2 pucks) | \$500.00 |
| Marshall Design | \$3,500.00 |
| SHRP Design | \$6,300.00 |
| Immersion Compression | \$550.00 |
| Density & thickness of AC Core | \$60.00 |
| Thickness only of AC Core | \$30.00 |
| Oven Correction (5 Samples) | \$550.00 |

Aggregate/Soils

| | |
|---|----------|
| Proctor | \$140.00 |
| Specific Gravity Rock Correction | \$65.00 |
| Gradation (Sieve analysis) | \$65.00 |
| LL/PI (Atterberg limits) | \$65.00 |
| Plastic Limit | \$35.00 |
| Liquid Limit | \$35.00 |
| Soils Analysis (Proctor, Gradation, Atterberg, Rock Correction, AASHTO Class) | \$360.00 |
| California Bearing Ratio (CBR) | \$300.00 |
| LA Abrasion | \$340.00 |
| Coarse Aggregate Specific Gravity | \$80.00 |
| Fine Aggregate Specific Gravity | \$80.00 |
| Specific Gravity of Soil | \$110.00 |
| Sodium Soundness | \$350.00 |
| Clay Lumps & Friable Particles | \$70.00 |
| Flat and Elongated | \$110.00 |
| Fine Aggregate Angularity | \$60.00 |
| Fractured Face Count | \$80.00 |
| Sand Equivalent (set of 3) | \$125.00 |
| Unit Weight | \$10.00 |
| Organic Impurities | \$60.00 |
| Moisture only | \$20.00 |
| Lightweight pieces | \$110.00 |
| Flakiness Index | \$80.00 |
| Stripping | \$110.00 |

Permeability Testing

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|---|----------|
| Falling Head, standard 2.5" diameter | \$130.00 |
| Constant Head, standard 2.5" diameter | \$240.00 |
| Back Pressure, Constant Head | \$340.00 |
| Large Diameter Permeability (9.6 in. (Aggregate)) | \$300.00 |

Concrete and Masonry

| | |
|---|---------------|
| Cylinders | \$20.00 |
| Grout Cylinders | \$30.00 |
| Mortar Cylinders | \$30.00 |
| Composite Prisms | \$90.00 |
| Cores (compressive strength) | \$45.00 |
| Beams | \$50.00 |
| Density & Absorption of Cores (set of 3) | \$105.00 |
| Concrete Shrinkage Test (set of 3) | \$315.00 |
| Concrete Design | \$1,500.00 |
| Trial Batch (per hour/per person) | \$65.00 |
| Core Rig (Daily) | \$90.00 |
| Generator (Daily) | \$60.00 |
| Potential Alkali-Silica Reactivity (ASR Mortar Bar-ASTM C-284 or C1260) | \$525.00 |
| Petrographic Analysis | Cost plus 20% |
| Lightweight Particles | \$130.00 |

Soils: Basic Index Testing

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| Crumb Test | \$35.00 |
| Moisture Content | \$20.00 |
| Moisture & Density (standard samples or rings) | \$20.00 |
| Organic Content | \$60.00 |
| Pinhole Dispersion Test (include sample preparation) | \$200.00 |
| Phase Relationships computations (per sample) | \$35.00 |
| Shrinkage Limit | \$65.00 |
| GSD Standard (up to 1 quart bag) | \$70.00 |
| Percent Fines (passing No. 200 sieve) | \$40.00 |
| Percent Fines Bulk Sample (passing No. 200 sieve) | \$60.00 |
| GSD Bulk (requires split, type1 gallon bag) | \$100.00 |
| Hydrometer Analysis (does not include specific gravity) | \$100.00 |
| USCS or AASHTO Classification | \$25.00 |
| USDA Classification (does not include grain-size distribution or hydrometer) | \$25.00 |

GeoStrata

2022 Rate Schedule and Lab Charges

Exhibit A

Compressibility Tests

| | |
|--|------------|
| Percent Swell Collapse (seating + specified load + inundation) | \$110.00 |
| 1-D Consolidation 10 loads + rebound (does not include Gs) | \$130.00 |
| 1-D Consolidation 10 loads + rebound + collapse/swell | \$140.00 |
| Secondary Curves (per load per day) | \$30.00 |
| 1-D Consolidation (timed readings, and rebound) | \$130.00 |
| Constant rate of strain consolidation | By project |
| Free Swell | \$110.00 |

Strength Testing

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|--|----------|
| Direct Shear (CD), 3 points, 2.5" OD Max | \$300.00 |
| Residual Shear (CD), per pt., 5 cycles | \$600.00 |
| Point Load Test, per test | \$45.00 |
| Pocket Penetrometer, per test | \$20.00 |
| Torvane, per test | \$20.00 |
| Unconfined Compression | \$80.00 |
| Consolidated Undrained Triaxial | \$750.00 |
| Unconsolidated Undrained Triaxial | \$300.00 |

Other

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|-----------------|----------|
| Reliance Letter | \$500.00 |
|-----------------|----------|

Other Special Tests

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|--|---------------|
| Soluble Chloride | \$55.00 |
| Corrosion package (includes resistivity, pH, Soluble Sulfates, Soluble Chloride) | \$210.00 |
| NaSO4 Soundness | \$250.00 |
| pH (Potentiometer, Method A) | \$50.00 |
| Resistivity, Moisture Conditioned Multi-Point | \$100.00 |
| Resistivity, at Existing Moisture Content | \$55.00 |
| Soluble Sulfates | \$55.00 |
| Environmental lab fees-including asbestos, | Cost plus 20% |

Notes:

All pricing subject to change.

I. Pricing for testing not described herein will be provided upon request.

II. Pricing assumes samples do not contain hazardous materials. Testing fees for contaminated samples will be at a negotiated fee.

III. Costs include storage of samples for up to 7 days after completion of testing. Samples will be discarded unless client makes prior arrangements.

IV. Additional storage will be at a negotiated fee.

V. Rush service available at an additional surcharge, please call for details.

VI. Daily rates are available upon request.