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**CITY OF HERMOSA BEACH
RFQ NO. 20-01
ON-CALL GEOTECHNICAL SERVICES
FEE SCHEDULE**

EFFECTIVE JULY 1, 2019 THROUGH JUNE 30, 2020

MTGL, Inc. (MTGL) is a woman-owned, minority-business-enterprise. Our facilities have been structured and professionally staffed to provide our clients with comprehensive services in the field of Construction Inspection and Testing, Geotechnical Engineering, Engineering Geology, and Environmental Services.

GEOTECHNICAL ENGINEERING

Planning and feasibility studies, preliminary and final design, grading and foundation plan reviews, observation, testing, verification and engineering consultation during construction.

CONSTRUCTION INSPECTION

Field inspection by registered deputy inspectors.

ROOFING INSPECTION

Field inspection by qualified technicians.

ENGINEERING INVESTIGATIONS

Evaluation of existing and damaged structures.

PAVEMENT MANAGEMENT

Design, failure investigations, remedial measures.

CONSTRUCTION ENGINEERING

Materials, specifications, quality assurance, expert testimony.

PHYSICAL TESTING

Construction materials, structural systems.

NON-DESTRUCTIVE EXAMINATION

Ultrasonic, magnetic particle, dye penetrant.

RESEARCH

Product and process development, reliability testing.

ENVIRONMENTAL / INDUSTRIAL HYGIENE

Asbestos and lead-paint based consultation, project design, monitoring and management, remediation planning environmental site assessments, thermographic imaging, indoor air quality testing, mold screening and consultation, water intrusion and investigation.

CONSTRUCTION SERVICES

PROFESSIONAL SERVICES

Principal Engineer / Geologist	\$ 150.00 Per Hour
Registered Civil Engineer / Geologist	\$ 140.00 Per Hour
Staff Engineer / Geologist	\$ 95.00 Per Hour
Inspection / Laboratory Supervisor	\$ 95.00 Per Hour
Project Manager	\$ 95.00 Per Hour
Draftsperson	\$ 70.00 Per Hour
Word Processing	\$ 50.00 Per Hour
Review of files for processing affidavits and certifications required by various Governmental Agencies	\$ 50.00 Per Hour
Legal Consultation, Expert Witness and Court Appearances (Minimum 4 Hours)	\$ 250.00 Per Hour

ENVIRONMENTAL SERVICES

Certified Asbestos Consultant	\$ 85.00 Per Hour
Certified Asbestos Inspector	\$ 65.00 Per Hour
Certified Asbestos Project Manager	\$ 75.00 Per Hour
Certified Asbestos Project Designer	\$ 75.00 Per Hour
Certified Site Surveillance Technician	\$ 65.00 Per Hour
On-Site 582 Certified Microscopist	\$ 65.00 Per Hour
Certified Lead Inspector / Assessor	\$ 65.00 Per Hour
Certified Lead Project Monitor	\$ 65.00 Per Hour
Certified Industrial Hygienist	\$ 180.00 Per Hour
Environmental Site Assessment (Phase I)	\$ 95.00 Per Hour
Environmental Site Assessment (Phase II)	\$ 95.00 Per Hour
Industrial Hygienist	\$ 100.00 Per Hour
(Prices based on 2 Hour Minimum & Test Samples Additional)	

PROJECT SERVICES

Technician - Laboratory and Field	\$ 90.00 Per Hour
Special Inspection	\$ 90.00 Per Hour
Roofing Technician	\$ 90.00 Per Hour
Batch Plant (Concrete or Asphalt)	\$ 90.00 Per Hour
Soils/Asphalt Technician	\$ 90.00 Per Hour
Ultrasonic, Fabrication, Magnetic Particle Inspection	\$ 110.00 Per Hour
Pull-Out Test on Embedded Bolts/ Anchors and Dowels	\$ 110.00 Per Hour
Concrete, Masonry, Asphalt Coring or Sawing	\$ 180.00 Per Hour
Floor Flatness / Levelness (Inc. Equipment)	\$1,200.00 Per Day
Emissivity	\$ 90.00 Per Hour
Escort Services	\$ 90.00 Per Hour

EQUIPMENT

Pick-Up and Delivery - Miscellaneous	\$ 40.00 Per Hour
Skidmore-Wilhelm Bolt Cell	\$ 40.00 Per Day
Torque Wrench	\$ 15.00 Per Day
Air Meter	\$ 20.00 Per Day
Pachometer	\$ 50.00 Per Day
Schmidt Hammer	\$ 30.00 Per Day
Ultrasonic Equipment	\$ 40.00 Per Day
Magnetic Particle Equipment	\$ 50.00 Per Day
Dye Penetrant Equipment	\$ 30.00 Per Day
Jacking Assembly	\$ 45.00 Per Day
Nuclear Density Gauge	\$ 70.00 Per Day
Mobile Soils Laboratory	\$ 40.00 Per Day
Coring Equipment	\$ 50.00 Per Day
Emissivity Test Kit	\$ 40.00 Each
Ground Rod Equipment	\$ 40.00 Per Day
On Site Trailer / Laboratory	\$2,700.00 Month

TESTING MACHINES

Testing Machine with Operator in Laboratory	
0 - 60,000 Pound Machine (Universal)	\$ 125.00 Per Hour
800,000 Pound Machine (Universal)	\$ 200.00 Per Hour

CONCRETE

STRENGTH CHARACTERISTICS

A.S.T.M.		
C39	Concrete Cylinders (6" x 12") w/ Mold	\$ 25.00 Each
C495	Lightweight Fill Concrete (3" x 6")	\$ 25.00 Each
C39	Concrete or Gunite Cores, 6" Maximum Diameter, Including Trim	\$ 35.00 Each
C496	Splitting Tensile	\$ 50.00 Each
C78	6" x 6" Beams, Modulus of Rupture	\$ 50.00 Each
	Handling Charge, Cylinders Not Broken/Hold	\$ 10.00 Each
	Handling Charge, Beams Not Broken/Hold	\$ 40.00 Each
C469	Modulus of Elasticity	\$ 75.00 Each

MIX DESIGN

A.S.T.M. C192	Laboratory Trial Batch with Slump, and 6 Cylinders/Prisms Unit Weight, Air, (Sampling Extra).....	\$ 350.00 Each
	Mix Design, Determination of Proportions	\$ 150.00 Each
	Review of Existing Mix Design	No Charge

MISCELLANEOUS TESTING

C567	Unit Weight of Hardened Light Weight Concrete	\$ 40.00 Each
C684	Rapid Cure Concrete Cylinders (Boil Method)	\$ 30.00 Each
C157	Drying Shrinkage (3 Bars - Four Readings, up to 90 Days)	\$ 200.00 Set
C495	Lightweight Fill Concrete Density	\$ 30.00 Each

MASONRY

STRENGTH CHARACTERISTICS

C780	Mortar Cylinders (2" x 4") w/ mold	\$ 25.00 Each
C109	Mortar Cubes (2" x 2") w/ mold	\$ 25.00 Each
C39	Grout Prisms (3" x 6") w/ mold	\$ 25.00 Each
	Handling Charge, Mortar or Prisms Not Broken/Hold	\$ 10.00 Each
C140	Block Compression ≤ 8" x 8" x 16"	\$ 35.00 Each
C140	Block Compression > 8" x 8" x 16"	\$ 45.00 Each
E447	Grouted Masonry Prism Compression Test ≤ 8" x 8" x 16"	\$ 100.00 Each
E447	Grouted Masonry Prism Compression Test > 8" x 8" x 16"	Quotation
	Handling Charge, Grouted Prisms Not Broken/Hold	\$ 75.00 Each

BLOCK

A.S.T.M.		
C140	Moisture Content and	
	Absorption	\$ 45.00 Each
C140	Measurements	\$ 25.00 Each
C67	Masonry Efflorescence	\$ 45.00 Each
C426	Linear Shrinkage	
	(CMA Method)	\$ 95.00 Each
	Rapid Linear Shrinkage	
	(British Modified Method) ..	\$ 75.00 Each
C952	Bond Strength	\$ 50.00 Each
C39	Masonry Core - Compression ..	\$ 35.00 Each
	Masonry Core - Shear	\$ 65.00 Each

BRICK

A.S.T.M.		
C67	Compression	\$ 35.00 Each
C67	Modulus of Rupture	\$ 35.00 Each
C67	Absorption, Soak	\$ 25.00 Each
C67	Absorption, Boil	\$ 25.00 Each
C67	Absorption, Saturation Coefficient	\$ 35.00 Each
C67	Initial Rate of Absorption	\$ 35.00 Each
C67	Efflorescence	\$ 45.00 Each
C67	Efflorescence with Mortar	\$ 55.00 Each

STEEL**REINFORCEMENT**

A.S.T.M.		
A615	No. 11 Bar and Smaller	\$ 35.00 Each
	No. 14, No. 18	Quotation
A615	Bend Test No. 11 Bar and Smaller	\$ 30.00 Each
	Processing Mill Certificates (Per Size and Heat)	\$ 20.00 Each

STRUCTURAL STEEL

A.S.T.M.		
A370	Tensile Strength Up to 100,000 lbs	\$ 45.00 Each
	100,000 to 200,000 lbs	\$ 55.00 Each
	Bend Test	\$ 35.00 Each
	Pipe Flattening Test	\$ 30.00 Each
	Bolt Tensile Test	\$ 35.00 Each
	Bolt Proof Test	\$ 25.00 Each
	Nut Proof Test	\$ 20.00 Each
	Nelson Stud Tensile Test	\$ 35.00 Each
	Machining and Preparation of Samples	\$ 35.00 Each
	Brinell & Rockwell Hardness Test	\$ 35.00 Each
	Processing Mill Certificates (Per Size and Heat)	\$ 25.00 Each
	Chemical Analysis	\$ 75.00 Each

PRESTRESS

A.S.T.M.		
A416	Prestress Cable, 7 Wire (Yield / Tensile)	\$ 150.00 Each
A416	Prestress Wire (Yield / Tensile)	\$ 140.00 Each
	Sample Preparation	\$ 45.00 Per Hour

WELD PROCEDURE AND WELDER QUALIFICATIONS

Welder Certification (AWS)	\$ 55.00 Per Hour
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STRUCTURAL STEEL COUPON

Weld Tensile Test	\$ 40.00 Each
Weld Bend Test	\$ 30.00 Each
Weld-Macro Etch	\$ 50.00 Each
Machining and Preparation of Samples	\$ 35.00 Each

FIREPROOFING

UBC 7-6	Unit Weight	\$ 35.00 Each
ASTM-736	Adhesion/Cohesion	\$ 15.00 Each

ROOFING

UBC 15-5	Unit Weight	\$ 55.00 Each
	Tile (Breaking Strength/ Absorption)	\$ 60.00 Each
	Mineral Shake - Flexural	\$ 35.00 Each
	Mineral Shake - Absorption ...	\$ 25.00 Each

SOIL AND AGGREGATE**CLASSIFICATION**

A.S.T.M.		
C136	Sieve Analysis (> #4 Sieve)	\$ 40.00 Each
C136	Sieve Analysis (<#4 Sieve)	\$ 40.00 Each
D422	Sieve Analysis (< #4 Sieve, Washed)	\$ 50.00 Each
D1140	#200 Wash	\$ 30.00 Each
D422	Sieve Analysis - Combined	\$ 60.00 Each
D422	Hydrometer with Sieve Analysis	\$ 125.00 Each
D4318	Liquid and Plastic Limit	\$ 90.00 Each
D2419		
CAL TM 217	Sand Equivalent (Set of Three)	\$ 65.00 Set
CAL TM 217	Cleaness Value	\$ 230.00 Each

PHYSICAL CHARACTERISTICS

A.S.T.M.		
C127	Specific Gravity and Absorption (> #4 Sieve)	\$ 75.00 Each
C128/D854	Specific Gravity and Absorption (< #4 Sieve)	\$ 65.00 Each
C127	Specific Gravity (> #4 Sieve)	\$ 60.00 Each
C128/D854	Specific Gravity (< #4 Sieve)	\$ 50.00 Each
D2216	Moisture Content	\$ 15.00 Each
D3080	Direct Shear Quick Undisturbed	\$ 100.00 Each
	Direct Shear Slow Undisturbed .	Quotation
D3080	Direct Shear Quick Remolded .	\$ 160.00 Each
	Direct Shear Slow Remolded	Quotation
D2166	Unconfined Compression	\$ 60.00 Each
D2435	Consolidation - Time Rate	\$ 275.00 Each
D2435	Consolidation - Without Time Rate	\$ 175.00 Each
UBC 18-2	Expansion Index	\$ 90.00 Each
D2434	Permeability - Undisturbed	\$ 270.00 Each
D2434	Permeability - Remolded	\$ 425.00 Each

SUBGRADE SUPPORT QUALITY

A.S.T.M.		
D1883	Bearing Ratio w/o M. D. Curve - Per Point	\$ 80.00 Each
D2844		
CAL TM 301	R-Value (3 Points)	\$ 190.00 Each

Lime, Cement or Bituminous Treatment available upon request.

DENSITY CHARACTERISTICS

A.S.T.M.		
D2937	Moisture / Density (Ring)	\$ 25.00 Each
D1557-A,B	Maximum Density	\$ 190.00 Each
D1557-C	Maximum Density	\$ 190.00 Each
D698-A,B	Maximum Density	\$ 190.00 Each
D698-C	Maximum Density	\$ 190.00 Each
	Check Point (Maximum Density)	\$ 70.00 Each
C29	Unit Weight - Loose	\$ 35.00 Each
C29	Unit Weight - Rodded	\$ 40.00 Each
CAL TM 216	Maximum Density	\$ 190.00 Each

CHEMICAL PROPERTIES

CAL TMs		
532/643	Resistivity	\$ 75.00 Each
532/643	pH	\$ 45.00 Each
CAL TM 417	Sulphate	\$ 55.00 Each
CAL TM 422	Chloride	\$ 55.00 Each
	Corrosivity Series	\$ 165.00 Each
	Chemical Analysis	\$ 75.00 Each

AGGREGATE PROPERTIES

A.S.T.M.		
C131	LA Abrasion	\$ 140.00 Each
C535	LA Abrasion	\$ 150.00 Each
C88	Soundness	\$ 275.00 Each
C40	Organic Impurities	\$ 40.00 Each
C142	Clay Lumps / Friable Particles ..	\$ 90.00 Each
C235	Soft Particles	\$ 75.00 Each
C123	Coal & Lignite	\$ 100.00 Each
CRD 119	Percent Elongation / Flats	\$ 145.00 Each
CAL TM 205	Percent Crushed	\$ 100.00 Each
CAL TM 229	Durability	\$ 150.00 Each

ASPHALT CONCRETE**GENERAL TESTING**

A.S.T.M.		
D2172	Bitumen Content	\$ 100.00 Each
D136, C117	Gradation of Extracted Sample	\$ 50.00 Each
D1188	Unit Weight - Molded Specimen or Cores	\$ 50.00 Each
D2041	Theoretical Maximum Density	\$ 75.00 Each
D1561, CAL TM 3D4	Compacted Maximum Density - HVEEM	\$ 120.00 Each
D1559	Compacted Maximum Density - MARSHALL	\$ 130.00 Each
D1664	Stripping	\$ 65.00 Each

MIX DESIGN / CONTROL

A.S.T.M.		
D1560		
CAL TM 336	Mix Design - HVEEM including Aggregate Tests - Per Design	\$1,000.00 Each
D1159	Mix Design - MARSHALL including Aggregate Tests - Per Design	\$1,200.00 Each
D1560		
CAL TM 336	Field Mix - HVEEM - Stability Per Point	\$ 150.00 Each
D1559	Field Mix - MARSHALL-Stability Per Point	\$ 160.00 Each

MISCELLANEOUS**Specimen Pick-Up**

Concrete /Mortar / Grout Compression.	\$ 40.00 Hour
Flexural Beams (\$70.00 Minimum)	\$ 40.00 Hour
Masonry Prism up to 8" x 8" x 16" (\$70.00 Minimum)	\$ 35.00 Each
Masonry Prism, Larger than 8" x 8" x 16"	Quotation
Gunite and Shotcrete Test Panels (\$70.00 Minimum)	\$ 35.00 Each
Fireproofing Samples	\$ 35.00 Per Trip

BASIS OF CHARGES

1. A four or eight hour minimum show-up charge will be incurred for all scheduled field services not canceled before 4:00 p.m. of the preceding day. Invoicing will include ½ hour added for the field daily report.
2. Time and one-half will be charged for any personnel services from 4:00 PM – 6:30 AM and in excess of eight hours per day, up to and including twelve hours per day, and Saturday. Double time will be charged for over twelve hours in any one day, Saturday and Sunday. Holidays are New Year's Day, Memorial Day, July 4th, Labor Day, Veteran's Day, Thanksgiving Day and the Friday after Thanksgiving Day, and Christmas Day and will be assessed at triple time. High priority laboratory testing at the Client's request which requires unscheduled overtime is subject to a 50% increase from the standard rates.
3. Sampling, specification review, discussion, and report preparation for field testing are charged at hourly rates. A minimum charge of \$100.00 will be made for issuance of any engineering reports. Engineering review time of all field reports is estimated to be two (2) hours per week.
4. Travel time and mileage for deputy inspection will apply to each service requiring specialized equipment or nuclear density gauges. For projects outside a 50-mile radius mileage rate will be \$0.50 cents per mile. Combination of services will be billed at the applicable higher hourly rate for the day.
5. Outside services performed by others and direct costs expended on the Client's behalf are charged at cost plus 20%, unless otherwise noted. Parking on site will be billed at cost.
6. Prices are good through July 1st of each year at which time the rates for will escalate 4% per hour for hourly classifications.