

CONTRACT AMENDMENT NO. 1
TO
WILLIAMSON COUNTY CONTRACT FOR
ENGINEERING SERVICES

WILLIAMSON COUNTY ROAD AND BRIDGE PROJECT: Geotechnical/Lab Testing Services ("Project")

THIS CONTRACT AMENDMENT NO. 1 to Williamson County Contract for Engineering Services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **Raba Kistner Consultants, Inc.** (the "Engineer") and becomes effective as of the date of the last party's execution below.

WHEREAS, the County and the Engineer executed the Williamson County Contract for Engineering Services dated effective **February 18, 2015** (the "Contract");

WHEREAS, pursuant to Article 14 of the Contract, the terms of the Contract may be modified by a written fully executed Contract Amendment;

WHEREAS, the "Compensation Cap" under Article 5 of the Contract limits the maximum amount payable under the Contract to **\$250,000.00**; and,

WHEREAS, the Rate Schedule in Exhibit D of the Contract are limited to the rates noted in said Exhibit D; and,

WHEREAS, it has become necessary to amend the Contract.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Contract is amended as follows:

- I. The hourly Rates in the original Exhibit D of the Contract are hereby amended as shown in the attached revised Exhibit D.

All other terms of the Contract are unchanged and will remain in full force and effect.

IN WITNESS WHEREOF, the County and the Engineer have executed this Contract Amendment, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER:

By: 
Signature

Gabriel Ornelas Jr.
Printed Name

Vice President
Title

5/25/2017
Date

COUNTY:

By: _____
Signature

Printed Name

Title

Date

Exhibit D – Rate Sheet

Additional Charges:

| | |
|--------------------------------------|-------------------|
| Sulfate Testing | \$75.00 Per Test |
| Technician Overtime | \$70.00 Per Hour |
| Certified Welding Inspector | \$95.00 Per Hour |
| Certified Welding Inspector Overtime | \$133.00 Per Hour |
| Non Destructive Testing (Ultrasound) | \$104.50 Per Hour |
| NDT Testing Overtime (Ultrasound) | \$146.30 Per Hour |
| Geotechnical Technician Overtime | \$84.00 Per Hour |
| Asphaltic Plant Observation | \$84.00 Per Hour |
| One Man Coring Overtime | \$84.00 Per Hour |
| Two Man Coring Overtime | \$131.60 Per Hour |

| TITLE | HOURLY Rate | |
|----------------------------|-------------|--------|
| Principal | \$ | 200.00 |
| Senior Engineer/Consultant | \$ | 200.00 |
| Project Manager | \$ | 175.00 |
| Project Engineer | \$ | 135.00 |
| Engineer | \$ | 100.00 |
| Engineer in Training | \$ | 90.00 |
| Geotechnical Technician | \$ | 60.00 |
| CADD Operator | \$ | 80.00 |
| Clerical | \$ | 55.00 |
| Geologist | \$ | 110.00 |
| Environmental Scientist | \$ | 105.00 |
| Lead Technician | \$ | 60.00 |
| CMT Technician | \$ | 50.00 |
| Archaeologist | \$ | 110.00 |
| GIS | \$ | 90.00 |

DIRECT EXPENSES

| | |
|----------------------------|--------------|
| Copies 8 1/2 x 11, 11 x 17 | \$0.16/page |
| Mylar 11 x 17 | \$2.10/page |
| Schematic Plots | \$1.58/sq ft |

| | | |
|---|----------|----------|
| -1 Auger Drilling (Does not include logging) | | |
| soil | per ft | \$16.00 |
| soft rock | per ft | \$19.00 |
| -2 Standard Wet Rotary (Does not include logging) | | |
| | per ft | \$21.00 |
| -3 Nx Rock Core (Does not include logging) | | |
| Soft rock (marl, shale) | per ft | \$32.00 |
| Hard rock (limestone, sandstone) | per ft | \$42.00 |
| -4 Non-conventional drilling (barge drilling or unusual time consuming drilling i.e. through bridge) | | |
| | per hr | \$279.30 |
| -5 Field Logging Services | | |
| Geotechnical Technician | per hr | \$60.00 |
| Geologists | per hr | \$110.00 |
| Engineer in Training | per hr | \$90.00 |
| -6 Field Coordination | | |
| Field Engineer | per hr | \$100.00 |
| Flagman | per hr | \$65.00 |
| -7 Mobilization | | |
| Mobilization or truck-mounted rig, rill crew and support | per mile | \$4.00 |
| Field logger trip charge | per mile | \$1.00 |
| Mobilization non-standard equipment (4x4 all terrain rig) | | At cost |
| Barge mobilization and rental | | At cost |
| -8 Sampling | | |
| Standard Penetration Test (ASTM D1586) | per test | \$22.00 |
| Shelby Tube (ASTM D1587) | per test | \$22.00 |
| Texas Cone Penetrometer Test (THD, Tex-132-E) | per test | \$26.00 |
| -9 Other Expenses/Charges | | |
| Standby Time | per hr | \$225.00 |
| Mileage - non-drilling equipment | per mile | \$1.00 |
| Grout backfill | per ft | \$3.25 |
| Dozer/clearing cost | | At cost |
| Logger truck charge | per day | \$55.00 |
| Standard pavement coring | each | \$75.00 |
| Concrete/AC patch | each | \$64.00 |
| Traffic control - signs, barricades | | At cost |
| All other outside expenses | | At cost |

FIELD AND LABORATORY UNIT FEES

ASPHALTIC CONCRETE

| <u>REFERENCE</u> | <u>FIELD SERVICES</u> | |
|-----------------------------|--|-------------|
| ASTM D 75 | Sampling Raw Materials of Composite Mix Technician Time | \$ 50.00/hr |
| Asphalt Institute Manual | Asphaltic Plant Observation - To Verify Aggregate Size and Quality, Batch Weights and Temperature Technician Time | 60.00/hr |
| Asphalt Institute Manual | Asphaltic Site Observation - To Observe Preparation, Laydown Operations, Asphaltic Concrete Temperatures, Mat Thickness and Mat Density Determination Technician Time | 60.00/hr |
| ASTM D 2950 | Nuclear Density Test with Inspection | 16.00/ea |
| | Nuclear Density Test..... | 25.00/ea |

REFERENCE LABORATORY SERVICES

| | | |
|--|---|--------------|
| ASTM D 2172; TxDOT, TEX-210-F | Extraction Test, Bitumen Content and Aggregate Sieve Analysis of Asphaltic Concrete | \$ 190.00/ea |
| ASTM D 2172; TxDOT, TEX-210-F | Extraction Test, Bitumen Content Only | 131.00/ea |
| | Asphaltic Concrete Extraction; Bitumen Content and Aggregates; Sieve Analysis of Asphaltic Concrete; Molding Specimens (Hveem or Marshall); Laboratory Density (Molded Specimen); Stability Test (Hveem); and Maximum Theoretical Specific Gravity (Rice Gravity) | 459.00/set |
| Hveem, TxDOT, TEX-206-F; Marshall, ASTM D 1559 | Molding Specimens Hveem or Marshall..... | 60.00/set |
| | Superpave (2 per set) | 124.00/set |
| TxDOT, TEX-207-F; ASTM D 2726 | Laboratory Density Test | 60.00/set |
| | a) Molded Specimen | 60.00/set |
| | b) Asphalt Core | 51.00/ea |
| | c) Superpave (2 per set) | 72.00/set |
| Hveem, TxDOT, TEX-208-F; Marshall, ASTM D 1559 | Stability Test Marshall | 58.00/set |
| | Hveem | 73.00/set |
| Asphalt Institute Manual and TxDOT; Mix Designs | Corp of Engineers or FAA | 1,914.00/ea |
| | TxDOT Quality Control/Quality Assurance | 1,914.00/ea |
| | TxDOT CMHB | 2,719.00/ea |
| | TxDOT Calibration Mix and Pans | 320.00/ea |
| | TxDOT Black Base Design, Item 345..... | 1,433.00/ea |

ASPHALTIC CONCRETE, continued

| <u>REFERENCE</u> | <u>LABORATORY SERVICES</u> | |
|---|---|--------------|
| TxDOT, TEX-200-F; ASTM C 136 | Sieve Analysis of Aggregate | \$ 39.00/ea |
| TxDOT, TEX-203-F; ASTM D 2419 | Sand Equivalent Test | 83.00/ea |
| AASHTO TP 33 | Fine Aggregate Angularity | 49.00/ea |
| ASTM D 4791-95 | Flat and Elongated Particle | 49.00/ea |
| TxDOT, TEX-201-F; ASTM C 127 | Specific Gravity (Coarse or Fine Aggregate) | 39.00/ea |
| TxDOT, TEX-201-F; ASTM C 127 | Absorption (Coarse or Fine Aggregate) (Includes Specific Gravity) | 60.00/ea |
| TxDOT, TEX-411-A; ASTM C 88 | Sulfate Soundness (Time and Test) Preparation Time | 51.00/hr |
| | a) Magnesium - 5 Cycle | 484.00/ea |
| | b) Sodium - 5 Cycle | 431.00/ea |
| ASTM C 131; ASTM C 535 | Los Angeles Abrasion Test (Time and Test) Los Angeles Abrasion Test (Small or Large Coarse Aggregate) | 187.00/ea |
| Asphalt Inst. SP-2 TxDOT, Item 3066 AASHTO PP 28-95 | Superpave TM Mix Design (Includes Aggregate, Specific Gravity and Sieve Analysis) (Does Not Include TSR) | 5,913.00/ea |
| TxDOT, TEX-227-F; AASHTO T 209; ASTM D 2041 | Maximum Theoretical Specific Gravity (Rice Gravity) | 90.00/ea |
| TxDOT, TEX-226-F; AASHTO T 283; ASTM D 4867 | Moisture Sensitivity Test (Tensile Strength Ratio Test) with Freeze/Thaw | 513.00/ea |
| | without Freeze/Thaw | 401.00/ea |
| TxDOT, Item 3157 | Cold Processed – Recycled Paving Material (RPM) Mixture Design | As Requested |
| | Mixture Verification (QC) Strength, Stability (Hveem, Modified Marshall) | 755.00/set |
| TxDOT, TEX-126-E (Modified) | Molding and Strength | 367.00/set |
| TxDOT, TEX-208-F (Modified) | Molding and Hveem | 139.00/set |
| ASTM D 1559 | Molding and Marshall | 131.00/set |
| TxDOT, TEX-103-E | Molded Moisture Content | 13.00/ea |

CEMENT TREATED BASE

REFERENCE **FIELD SERVICES**

| | | |
|-----|--|-------------|
| PCA | Sampling Raw Materials for Mix Verification Technician Time | \$ 50.00/hr |
| | Sampling Contractor Processed Material Technician Time | 50.00/hr |

REFERENCE **LABORATORY SERVICES**

| | | |
|---|---|----------------|
| PCA | Molding Controlled Processed Material..... | \$ 69.00/ea |
| PCA | Unconfined Compressive Strength Testing | 31.00/ea |
| ASTM D 559; ASTM D 560 | Durability (2 Specimens per Set) (Percent Loss in 12 Cycles) Wet Dry/Freeze Thaw | 589.00/set |
| | <u>Mix Design</u> | |
| PCA; TxDOT, TEX-120-E; ASTM D 558 | Mix Design - Cement Treated Base (Does Not Include Durability)..... | \$ 1,171.00/ea |

CONCRETE

REFERENCE **FIELD SERVICES**

| | | |
|---|---|-------------|
| ASTM C 31; ASTM C 172; ASTM C 143 | Sampling Concrete to Conduct Slump Test, Measure Concrete Temperature, Cast Test Specimen and Transport Test Specimen to Laboratory Next Day Technician Time | \$ 50.00/hr |
| | Pick-Up of Test Specimen | 50.00/hr |
| | Standby Time..... | 50.00/hr |
| ASTM C 39; ASTM C 617 | Cylinder Compressive Strength Testing and Reporting (In Conjunction with Sampling) | |
| | a) 6x12 or 4x8 - Normal Weight or Lightweight Structural (Minimum of 4)..... | 17.00/ea |
| | b) 3x6 - Lightweight Insulating Cellular (Minimum of 6 - Includes Two Dry Densities) | 25.00/ea |
| | c) "Hold" Cylinder (Additional Charge)..... | 11.00/ea |
| | d) "Strip" Cylinder (Additional Charge)..... | 13.00/ea |
| | e) Compressive Strength - 2x2 Cubes..... | 24.00/ea |
| | f) Dry Density - Concrete Cylinder | 44.00/ea |
| ASTM C 78 | Flexural Strength Testing and Reporting (In Conjunction with Sampling Beams)..... | 49.00/ea |
| | Air Content (In Conjunction with Sampling) | |
| ASTM C 231 | a) Pressure | 32.00/ea |
| ASTM C 173 | b) Volumetric..... | 38.00/ea |
| AASHTO T 199 | c) Chase | 17.00/ea |
| ASTM C 138 | Unit Weight..... | 29.00/ea |
| ASTM C 143 | Additional Slump Test | 24.00/ea |

CONCRETE, continued

| | | |
|---------------------|--|----------|
| ACI 311; ACI 304 | Concrete Plant Observation - To Observe and Record Aggregate Types, Batch Weights, Concrete Consistency and Mixing Time Technician Time | 50.00/hr |
| ACI 311; ACI 304 | Concrete Site Observation - To Record the Consistency of Concrete, Verify and Adjust Slump within Project Specifications and Sample for Test Specimens Technician Time | 50.00/hr |

REFERENCE **LABORATORY SERVICES**

| | | |
|-------------------|--|--------------|
| ACI 211.1 | Hardrock Concrete Mix Design Calculations and Proportioning to Include Six Confirmatory Cylinders (Physical Properties Not Included) | \$ 301.00/ea |
| ACI 211.1 (303.R) | Architectural Mix Design..... | 330.00/ea |
| ACI 211.2 | Lightweight Structural Mix Design | 310.00/ea |
| ASTM C 270 | Masonry Mortar Mix Design Including Six Cubes and Water Retention (Physical Properties Not Included) | \$ 330.00/ea |
| ASTM C 1202 | Chloride Ion Permeability | 262.00/set |
| ASTM C 39 | Cylinders Compressive Strength Testing and Reporting F.O.B. Cylinders to Our Laboratory | 28.00/ea |
| ASTM C 496 | Splitting Tensile Strength of Concrete Cylinders Tensile Test | 44.00/ea |
| ASTM C 666 | Freeze-Thaw Test | 364.00/set |
| ASTM C 469 | Determination of Young's Modulus of Elasticity (Time, Test and Set-Up)..... | 83.00/ea |
| ASTM C 803 | Windsor Probe (Includes Surface Preparation)..... | 85.00/hr |
| ASTM C 805 | Schmidt Rebound Number | 85.00/hr |

CONCRETE AGGREGATES

REFERENCE **FIELD SERVICES**

| | | |
|--------------------------------|--|-------------|
| ASTM D 75; TxDOT, TEX-400-A | Sampling Concrete Aggregates Technician Time | \$ 50.00/hr |
|--------------------------------|--|-------------|

REFERENCE **LABORATORY SERVICES**

| | | |
|--------------------------------|--|----------------------|
| ASTM C 566 | Moisture Content..... | \$ 13.00/ea |
| ASTM C 29; TxDOT, TEX-404-A | Unit Weight (Coarse or Fine) a) Loose..... b) Rodded | 33.00/ea 33.00/ea |

| | | |
|---|--|------------|
| ASTM C 127; ASTM C 128; TxDOT, TEX-201-F | Specific Gravity (Coarse or Fine) | 39.00/ea |
| ASTM C 123 | Lightweight Particles (Plus Cost of Materials) | 58.00/test |
| | Absorption | |
| ASTM C 127; ASTM C 128; TxDOT, TEX-201-F | a) Normal Weight Aggregate (Coarse or Fine) | 25.00/ea |
| | b) Lightweight Aggregate (Coarse) | 28.00/ea |
| ASTM C 136; TxDOT, TEX-401-A | Sieve Analysis (Dry) for ASTM C 33 Specifications | |
| | a) Coarse, Per Sample | 44.00/ea |
| | b) Fine, Per Sample | 52.00/ea |
| ASTM C 117; TxDOT, TEX-406-A | Amount Finer than No. 200 (Decantation) | 37.00/ea |
| ASTM C 131; ASTM C 535 | Los Angeles Abrasion (Time and Test) | 187.00/ea |
| ASTM C 88; TxDOT, TEX-411-A | Sulfate Soundness (Time and Test) | |
| | Preparation Time | 51.00/hr |
| | a) Magnesium - 5 Cycle | 484.00/ea |
| | b) Sodium - 5 Cycle | 431.00/ea |
| ASTM C 117; ASTM C 29; ASTM C 127; ASTM C 128; ASTM C 566; TxDOT, TEX-406-A; TxDOT, TEX-404-A; TxDOT, TEX-201-F; TxDOT, TEX-401-A | Physical Properties of Aggregates - Includes Decantation, Rodded Unit Weight, Specific Gravity, Absorption, Sieve Analysis and Moisture Content (Per Aggregate Type and Size) Conducted in Conjunction with Concrete Mix Design | 144.00/ea |
| | Conducted Separate from Concrete Mix Design | 187.00/ea |
| ASTM C 40; TxDOT, TEX-408-A | Organic Impurities | 38.00/ea |
| ASTM C 2419; TxDOT, TEX-203-F | Sand Equivalent Values | 83.00/ea |
| ASTM C 142 | Clay Lumps and Friable Particles | 56.00/ea |
| ASTM C 641 | Staining Materials in Lightweight Concrete Aggregate | 56.00/ea |

CORING

REFERENCE

ASTM C 42;
ACI 318

FIELD SERVICES

Technician Time and Equipment

| | | |
|-------------------------------------|----|-----------|
| a) One Man | \$ | 60.00/hr |
| b) Two Men | | 94.00/hr |
| c) Reinforcing Steel Detector | | 29.00/day |
| d) Coring | | 92.00/day |
| e) Generator | | 95.00/day |

Bit Wear

| | |
|--|-------------|
| a) Limestone Aggregate | 6.00/in.in. |
| b) Quartz Aggregate (River Gravel) | 7.00/in.in. |

REFERENCE**LABORATORY SERVICES**

| | | |
|---|--|-------------|
| ASTM C 42 | Sawed Ends for Compressive Strength Test a) Limestone Aggregate..... | 2.00/sq.in. |
| ASTM C 39; ASTM C 42; ASTM C 174; ASTM C 617 | Compressive Strength of Concrete Core Includes Measurements, Capping and Testing..... | 25.00/ea |
| | Report Photographs | At Cost |
| | Laboratory Air-Dried Unit Weight | 17.00/ea |

LIME**REFERENCE****FIELD SERVICES**

| | | |
|------------------------------|--|-------------|
| National Lime Association | Continuous Observation to Monitor and Record Equipment Functions, Specific Gravity of the Lime Slurry and Observation of Stabilization Location and Depth Technician Time | \$ 50.00/hr |
|------------------------------|--|-------------|

REFERENCE**LABORATORY SERVICES**

| | | |
|--|---|-------------|
| ASTM D 422; TxDOT, TEX-101-E, Pt. II | Sieve Analysis of Pulverized Materials for Gradation Compliance | \$ 63.00/ea |
| ASTM D 4318; TxDOT, TEX-112-E | Lime Series Curve Determination Including Five Atterberg Limits | 435.00/ea |

PORTLAND CEMENT**REFERENCE****LABORATORY SERVICES**

| | | |
|---------------------------|---|-------------|
| ASTM C 183 | Standard Method of Sampling Hydraulic Cement | \$ 50.00/hr |
| ASTM C 109 | Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50mm Cube Specimen) | 24.00/ea |
| ASTM C 185 | Air Content of Hydraulic Cement Mortar | 49.00/ea |
| ASTM C 266; ASTM C 191 | Time of Setting of Hydraulic Cement by Gillmore/Vicat Needles | 59.00/ea |
| ASTM C 151 | Autoclave Expansion of Portland Cement..... | 197.00/ea |
| ASTM C 187 | Normal Consistency of Hydraulic Cement..... | 49.00/ea |
| ASTM C 188 | Specific Gravity of Hydraulic Cement..... | 57.00/ea |
| ASTM C 430 | Fineness of Hydraulic Cement by the No. 325 Sieve..... | 57.00/ea |
| ASTM C 451 | Early Stiffening of Portland Cement (Paste Method)..... | 49.00/ea |
| ASTM C 114 | Chemical Analysis..... | 361.00/ea |

| | | |
|------------|--|-----------|
| ASTM C 91 | Water Retention of Masonry Cement..... | 92.00/ea |
| ASTM C 150 | Chemical Analysis..... | 361.00/ea |
| | Physical Analysis | 717.00/ea |

SOILS

REFERENCE

FIELD SERVICES

| | | |
|-----------------------------|--|-------------|
| ASTM D 75 | Sampling Subgrade, Fill or Base Technician Time | \$ 50.00/hr |
| | In-Place Moisture-Density Test Technician Time | 50.00/hr |
| ASTM D 2922 | Nuclear Density | 25.00/ea |
| ASTM D 2167; ASTM D 1556 | Volumetric Density (Sand Cone) | 72.00/ea |
| | Fill and Embankment Observation - Testing for Compliance with the Project Specifications to Verify Proper Moisture and Compaction Conditions in Order to Produce a Quality Fill and Uniform Workmanship (Time, Test and Mileage) Technician Time (Hourly Rate) | 50.00/hr |
| | Proof Rolling Observation | 50.00/hr |
| ASTM D 2922 | Nuclear Density Test with Observation | 16.00/ea |

REFERENCE

LABORATORY SERVICES

| | | |
|---|--|------------------------|
| ASTM D 2216; TxDOT, TEX-103-E | Moisture Content..... | \$ 13.00/ea |
| ASTM D 4318 | Atterberg Limits a) ASTM or TxDOT (TEX-104, TEX-105-E, TEX-106-E) | 83.00/ea |
| ASTM D 427 | Shrinkage Limit in Conjunction with Atterberg Limits a) Volumetric..... b) Linear (TxDOT, TEX-107-E) | 102.00/ea 102.00/ea |
| ASTM D 422; TxDOT, TEX-101-E; TxDOT, TEX-110-E | Sieve Analysis a) Washed through No. 40 (Up to 5 Sieves) | 56.00/ea |
| | b) Washed through No. 200 (Up to 4 Sieves) | 83.00/ea |
| | c) Additional Sieves | 13.00/ea |
| ASTM D 1140 | Amount Finer than No. 200 Sieve | 56.00/ea |
| | Moisture-Density Relationship Preparation Time | 51.00/hr |
| ASTM D 698; ASTM D 1557 AASHTO T 99; AASHTO T 180 TxDOT, TEX-113-E; TxDOT, TEX-114-E MIL STD CE 55A | ASTM | 249.00/ea |
| | AASHTO | 249.00/ea |
| | TxDOT | 249.00/ea |
| | Corps of Engineers | 249.00/ea |
| ASTM C 131; ASTM D 535 | Los Angeles Abrasion (Time and Test) | 187.00/ea |

| | | |
|---------------------------------|--|---------------|
| ASTM D 1883 | California Bearing Ratio - Short Method; Includes Moisture-Density Relationship and Three Test Specimens..... | \$ 791.00/set |
| | Each Additional Specimen | 163.00/ea |
| TxDOT, TEX-117-E | TxDOT Triaxial – Short Method; Includes Moisture-Density Relationship and Up to Six Test Specimens | |
| | Part I..... | 1,314.00/set |
| | Part II..... | 1,206.00/set |
| | Each Additional Specimen | 148.00/ea |
| ASTM D 854; TxDOT, TEX-108-E | Specific Gravity | 83.00/ea |
| ASTM D 422; TxDOT, TEX-110-E | Hydrometer Analysis (Includes Sample Preparation, Grain Size Curve and Specific Gravity) | 273.00/ea |
| ASTM D 5084 | Hydraulic Conductivity..... | 421.00/ea |
| ASTM D 2166 | Unit Weight..... | 29.00/ea |
| TxDOT, TEX-116-E | Wet Ball Mill | 206.00/ea |
| | Water Content and Visual Classification | 13.00/ea |
| | Unconfined Compression (includes unit dry weight) | |
| | a) Soil Shelby Tube Specimens | 43.00/ea |
| | b) Rock Core Specimens | 51.00/ea |
| | (1) Sawed Specimen Ends..... | 11.00/end |
| | Triaxial Compression | |
| | a) Unconsolidated-Undrained, Per Specimen | 78.00/ea |
| | b) Unconsolidated-Undrained, Multistage | 273.00/ea |
| | Direct Shear | |
| | a) Unconsolidated-Undrained | 217.00/ea |
| | b) Consolidated-Drained (Sand) | 459.00/ea |
| | Consolidation (Not Including Specific Gravity) | 565.00/ea |
| | Swell Test | |
| | a) Pressure Method | 296.00/ea |
| | b) Free Swell..... | 156.00/ea |

GENERAL EXPENSES

| | |
|---------------------|---------------|
| Vehicle Trip Charge | \$ 40.00/trip |
|---------------------|---------------|