



Administrative Services
Purchasing Division

January 10, 2007

CTL/Thompson, Inc.
Attn: Ronald M. McOmber, P.E.
375 E. Horsetooth Rd.
Fort Collins, CO 80525

Re: Renewal, P878 Geotechnical Testing Services

Dear Mr. McOmber:

The City of Fort Collins wishes to extend the agreement term for the above captioned proposal per the existing terms and conditions, including increases on the attached Exhibit B Fee Schedule and Exhibit C Fee Schedule Additional Services. The term will be extended for one (1) additional year, March 31, 2007 through March 30, 2008.

If the renewal is acceptable to your firm, please sign this letter in the space provided and return it to the City of Fort Collins, Purchasing Division, P. O. Box 580, Fort Collins, CO 80522, within the next fifteen days.

If this extension is not agreeable with your firm, we ask that you send us a written notice stating that you do not wish to renew the contract and state the reason for non-renewal.

Please contact John D. Stephen CPPO, CPPB, Senior Buyer, at (970) 221-6777 if you have questions.

Sincerely,

James B. O'Neill II, CPPO, FNIGP
Director of Purchasing and Risk Management

Signature *Manager of Field Services*

1/25/07
Date

(Please indicate your desire to renew P878 by signing this letter and returning it to Purchasing Division within the next fifteen days.)

JBO:nkw

**EXHIBIT B
FEE SCHEDULE**

Revised

25-Jan-07

Note: 3% increase applied to 2006 rates

Item #	Description	Unit	2006 Price	2007 Price
<u>SOILS</u>				
101	Atterberg Limits; Classification Liquid Limit, Plastic Limit, Plasticity Index	Ea. Test	\$57.11	\$58.82
102	Hveem Stabilometer - "R" Value	Ea.	\$311.51	\$320.85
103	Proctor - Standard	Ea.	\$77.88	\$80.21
104	Proctor - Modified	Ea.	\$88.26	\$90.91
105	Proctor - One Point Check	Ea.	\$31.15	\$32.09
106	PH Determination	Ea.	\$31.15	\$32.09
107	Nuclear Field Density Test 3 or More Tests Per Trip	Ea. Test	\$15.58	\$16.04
108	Nuclear Field Density Test, Less Than 3 Tests Per Trip	Ea. Test	\$20.77	\$21.39
109	Sieve Analysis - (Plus #4 Material)	Ea. Test	\$36.34	\$37.43
111	Sieve Analysis - (#4 to minus 200 Material)		\$31.15	\$32.09
112	Organic Content for Top Soil	Ea. Test	\$31.15	\$32.09
113	Hydrometer Analysis	Ea. Test	\$62.30	\$64.17
<u>CONCRETE</u>				
201	Concrete Cylinders (Including sampling in Field, Slump, Unit Weight, Yield, Air Content, Temperature, Casting, Curing Testing and Reporting)	Set of 4	\$145.37	\$149.73
202	Additional Cylinder	Per Cylinder	\$9.35	\$9.63
203	Compression Test (Cap, Cure and Break FOB Lab)	Ea. Test	\$12.46	\$12.83
204	Concrete Beams (Including Sampling)	Set of 3	\$171.33	\$176.47
205	Additional Beam	Per Beam	\$33.23	\$34.22
206	Sand Equivalent (CP-30)	Ea. Test	\$83.07	\$85.56
<u>ASPHALT</u>				
301	Sieve Analysis - (Plus #4 Material)	Ea. Test	\$36.34	\$37.43
302	Sieve Analysis - (Minus #4 Material)	Ea. Test	\$31.15	\$32.09
303	Specific Gravity and Absorption (Plus #4 Material)	Ea. Test	\$36.34	\$37.43
304	Specific Gravity and Absorption (Minus #4 Material)	Ea. Test	\$36.34	\$37.43
305	L.A. Abrasion Test	Ea. Test	\$98.64	\$101.60
306	Fractured Face Determination	Ea. Test	\$119.41	\$122.99
307	Flat and Elongated Particles	Ea. Test	\$119.41	\$122.99
308	Maximum Theoretical Specific Gravity for Air Voids (Rice)	Ea. Test	\$83.07	\$85.56
309	Lottman (TSR) Test	Ea. Test	\$353.04	\$363.63

**EXHIBIT B
FEE SCHEDULE**

Revised 25-Jan-07

Note: 3% increase applied to 2006 rates

Item #	Description	Unit	2006 Price	2007 Price
<u>ASPHALT (Continued)</u>				
310	Mix Design Bulk Unit Weight and Hveem Stability Verification	Ea. Test	\$207.67	\$213.90
311	Sand Equivalent	Ea. Test	\$83.07	\$85.56
312	Determination of Bitumen Content by Extraction, Gradation Analysis of Extracted Aggregate (To be sampled by Consultant)	Ea. Sample	\$155.75	\$160.43
313	Determination of Bitumen Content by Extraction (To be Sampled by Consultant)		\$83.07	\$85.56
314	Determination of Bitumen Content by Nuclear Gauge (To be Sampled by Consultant)	Ea. Sample	\$83.07	\$85.56
315	Calibrate Nuclear Gauge (For a New Asphalt Mix)	Ea. Calibration	\$311.51	\$320.85
316	Nuclear Field Density Tests (3 or More Tests per Trip)	Ea. Test	\$15.58	\$16.04
317	Nuclear Field Density Tests (Less Than 3 Tests per Trip)	Ea. Test	\$20.77	\$21.39
18	Asphalt Plant Inspection	Per Hour	\$51.92	\$53.48
319	Core Field Samples	Per Hour	\$36.34	\$37.43
		Per Inch		
<u>HOURLY RATES</u>				
401	Principal Engineer and/or Geologist	Per Hour	\$103.84	\$106.95
402	Geotechnical Engineer/ Department Manager	Per Hour	\$72.69	\$74.87
403	Senior Field Technician	Per Hour	\$57.11	\$58.82
404	Field Technician	Per Hour	\$46.73	\$48.13

EXHIBIT C
FEE SCHEDULE --
ADDITIONAL SERVICES

Revised 25-Jan-07

Note: 3% increase applied to 2006 rates

	2006 Price	2007 Price
Field Investigation Services		
Drilling and Sampling with a 4-inch Auger	\$129.80 /hour	\$133.69 /hour
Drilling and Sampling with Hollow Auger	\$155.75 /hour	\$160.43 /hour
Drilling and Sampling with Track-Mounted Rig Add	\$48.73 /hour	\$48.13 /hour
Drilling and Sampling with Rotary Drill		
Shelby Tube Sample	\$12.46 each	\$12.83 each
Drilling Rig Mobilization		
Fort Collins Area	Hourly Rate	Hourly Rate
Outlying Areas	\$1.97 /mile	\$2.03 /mile
Auto or Pickup Mileage (Out Of Town Mobilization)	\$0.52 /mile	\$0.53 /mile
Labor, Out-Of-Town Living Expenses, Travel Costs, Equipment Rental		
Construction Observation and Testing Services		
Drilled Pier Installation	\$55.03 /hour	\$56.68 /hour
On Site Concrete Curing Service	Quote on Request	Quote on Request
Maturity Meter Curing Method	Quote on Request	Quote on Request
In Situ Concrete Pullout Tests		
insert installation & Pull Test	\$80.99 /hour	\$83.42 /hour
Inserts	\$25.96 each	\$26.74 each
Floor Flatness (F _r and F _L and/or 10 Foot Straightedge)	\$80.99 /hour	\$83.42 /hour
Reinforcement Placement Observation*	\$55.03 /hour	\$56.68 /hour
Masonry Special Inspection*	\$55.03 /hour	\$56.68 /hour
Weld & Bolt Inspection	\$55.03 /hour	\$56.68 /hour
Post Tension:		
Strand Observation*	\$55.03 /hour	\$56.68 /hour
Elongation Measurements*	\$55.03 /hour	\$56.68 /hour
Sprayed on Fireproofing includes, when required:	\$55.03 /hour	\$56.68 /hour
Thickness Measurements, Density Per Sample, Bond Per Test		
Report Review / Supervision for Construction Observation and Testing Services	\$41.53 /report	\$42.78 /report
Overtime Charge Increase for work done on Saturday, Sunday and Holidays	\$10.38 /hour	\$10.70 /hour
Specialized Testing and Services		
Geophysical Services		
Pier Integrity, Profiles by Reflection or Refraction, Resistivity Surveys, Dynamic Soil Properties		
Specialize Testing Equipment Charges (Portable Drill Rig, Pressuremeter, Resistivity, Photolonization Device, Field Permeability, Down-Hole Moisture / Density		
Benkelman Beam Testing		
Benkelman Beam and Operator	\$115.23 /hour	\$118.69 /hour
Truck - 18 kip axle load	\$157.13 /hour	\$161.84 /hour
Transverse Profilograph Testing	\$94.28 /hour	\$97.11 /hour
NOT Equipment (Pulse-Velocity, Windsor Probe Test System, Pachometer, Half-Cell)	\$26.19 /hour	\$26.97 /hour
Laboratory Services		
Natural Moisture and Density	\$5.19	\$5.35
Specific Gravity	\$36.34	\$37.43
Unconfined Compression	\$31.15	\$32.09
Unconfined Compression with Stress / Strain Curve	\$41.53	\$42.78
One-Dimensional Swell Test	\$36.34	\$37.43
One-Dimensional Swell Test with Load Back for Swell Pressure	\$46.73	\$48.13
Soil Suction, per point	\$41.53	\$42.78
One-Dimensional Time Consolidation Test		
Set up and Initial Load	\$134.99	\$139.04
Additional increments	\$36.34	\$37.43
Triaxial or Direct Shear Tests, per point		
Unconsolidated-Undrained	\$103.84	\$106.95
Consolidated-Undrained	\$342.66	\$352.94
Consolidated-Undrained with Pore Pressure	\$383.43	\$374.33
Relative Density (ASTM D 4253 and D 4254)	\$150.56	\$155.08
California Bearing Ratio (3 Points)	\$373.81	\$385.02
Permeability		
Flexible Membrane (Triaxial Cell)	\$373.81	\$385.02

EXHIBIT C
FEE SCHEDULE –
ADDITIONAL SERVICES

Revised 25-Jan-07

Note: 3% increase applied to 2006 rates

Remolded Sample (Falling or Constant Head)	\$228.44	\$235.29
Back Pressure Oedometer	\$228.44	\$235.29
Water Soluble Sulfates	\$38.34	\$37.43
pH	\$31.15	\$32.09
Resistivity, per Specimen (Natural Moisture and Saturated)	\$77.88	\$80.21
Rock Testing		
Specific Gravity	\$38.34	\$37.43
Two-Cycle Slake-Durability, per point	\$83.07	\$85.56
Unconfined Compression, per point		
Peak Load Only	\$93.45	\$96.28
With Stress / Strain Curve, Static E and Poisson's Ratio	\$155.75	\$160.43
Triaxial Compression-NX per point	\$114.22	\$117.85
With Stress / Strain Curve, Static E and Poisson's Ratio	\$228.44	\$235.29
Liquid Asphalt Laboratory Testing		
Viscosity at 140E F	\$88.28	\$90.91
Viscosity at 275E F	\$88.28	\$90.91
Penetration	\$62.30	\$64.17
Specific Gravity	\$82.30	\$84.17
Softening Point	\$88.28	\$90.91
Flash Point	\$62.30	\$64.17
Ductility @ 77E F	\$88.28	\$90.91
Ductility @ 39.4E F	\$140.18	\$144.38
Solubility	\$98.64	\$101.60
Dynamic Rheometer	\$571.10	\$588.23
Polymer Compatibility	\$934.52	\$962.56
Direct Tension Test	\$441.30	\$454.54
Mixing / Compaction Temperatures	\$259.59	\$267.38
Bending Beam Test	\$415.34	\$427.80
Thin Film Oven Aging (Including Viscosities)	\$228.44	\$235.29
Aging of Asphalt Cement	\$228.44	\$235.29
Polymer / AC Blending	Quote on Request	Quote on Request
Specimen Preparation and Miscellaneous Testing	\$51.82	\$53.48
Emulsion Testing		
Residue and Oil Distillate	\$228.44	\$235.29
Test on Residue		
Penetration	\$62.30	\$64.17
Ductility @ 77E F	\$88.28	\$90.91
Solubility	\$98.64	\$101.60
Coating Ability and Water Resistance	\$119.41	\$122.99
Storage Stability	\$119.41	\$122.99
Sieve Test	\$62.30	\$64.17
Viallet Testing (per Time or Temperature)	\$228.44	\$235.29
Debonding Testing	\$290.74	\$299.46
Seal Coat Design	\$1,248.03	\$1,283.41
Asphaltic Concrete Testing		
SHRP or AAMS Mix Design	Quote on Request	Quote on Request
Hveem Mix Design	\$1,248.03	\$1,283.41
Marshall Mix Design	\$1,248.03	\$1,283.41
Immersion Compression	\$311.51	\$320.85
Lotman (Tensile Strength Ratio) AASHTO	\$353.04	\$363.63
Lotman (Tensile Strength Ratio) Cyclic	\$1,248.03	\$1,283.41
Gyratory Refusal	\$155.75	\$160.43
Indirect Tensile Creep	\$155.75	\$160.43
Indirect Tensile Strength	\$155.75	\$160.43
Stripping Test	\$72.89	\$74.87
Swell Test	\$72.69	\$74.87
Theoretical Maximum Density	\$83.07	\$85.56
Marshall Properties (Including Theoretical Maximum Density)	\$207.67	\$213.90
Hveem Properties (Including Theoretical Maximum Density)	\$207.67	\$213.90
Extraction and Gradation	\$155.75	\$160.43
Resilient Modulus	Quote on Request	Quote on Request
Nuclear Asphalt content Gage Calibration	\$311.51	\$320.85
Asphalt by Nuclear Gage / or Ignition Oven	\$83.07	\$85.56

EXHIBIT C
FEE SCHEDULE –
ADDITIONAL SERVICES

Revised 25-Jan-07

Note: 3% increase applied to 2006 rates

Core Density		\$25.96		\$26.74	
Core / Lift Thickness		\$25.96		\$26.74	
Sample Preparation, Miscellaneous Testing		\$51.92		\$53.48	
Aggregate Laboratory Services			Coarse	Fine	
			Coarse	Fine	
Scratch Hardness		\$51.92		\$53.48	
Gradation Analysis (per Fraction)		\$36.34	\$31.15	\$37.43	\$32.09
Passing No. 200 Sieve		\$25.96	\$25.96	\$26.74	\$26.74
Organic Impurities			\$41.53	\$42.78	\$42.78
Lightweight Particles		\$80.99	\$80.99	\$83.42	\$83.42
Clay Lumps and Friable Particles		\$70.81	\$70.81	\$72.73	\$72.73
Pop-out of Lightweight Aggregates		\$207.67		\$213.90	
5-Cycle Sodium Soundness		\$186.90	\$186.90	\$192.51	\$192.51
5-Cycle Magnesium Soundness		\$186.90	\$186.90	\$192.51	\$192.51
12-Cycle Sodium / Magnesium Soundness		\$238.82	\$238.82	\$245.99	\$245.99
Potential Reactivity (Chemical Method)		\$259.59	\$259.59	\$267.38	\$267.38
Potential Reactivity (Mortar Bar Method ASTM C227, C1280 & C1293)		\$493.22	\$493.22	\$508.02	\$508.02
Unit Weight		\$36.34	\$36.34	\$37.43	\$37.43
Specific Gravity and Absorption		\$36.34	\$36.34	\$37.43	\$37.43
Staining Test (Lightweight Aggregates)		\$83.07		\$85.56	
Flat and Elongated Pieces		\$119.41		\$122.99	
Los Angeles Abrasion	Small-Sized Aggregate	\$98.64		\$101.60	
Molature Content		\$18.69	\$18.69	\$19.25	\$19.25
Fractured Face Determination		\$119.41	\$285.55	\$122.99	\$294.12
Sand Equivalent			\$83.07		\$85.56
Freeze-Thaw		\$285.55	\$249.21	\$294.12	\$256.68
Mill Abrasion		\$155.75		\$160.43	
Petrographic Examination		Quote on Request		Quote on Request	
Crushing		\$60.22	/hour	\$62.03	/hour
Blending, Sampling and Miscellaneous Testing		\$70.81	/hour	\$72.73	/hour
Gradation Analysis of Large Pli-Run Samples (Larger than 1 1/2 inch)		\$72.69	/hour	\$74.87	/hour
Compressive Strength of Test Cylinders (Including Unheld or Untested Cylinders)		\$9.35		\$9.63	
Concrete Laboratory Services					
Compressive Strength of Test Cylinders Cast by Others		\$18.69		\$19.25	
Preparation and Testing of Cores					
Density / Compressive Strength / Thickness		\$41.53		\$42.78	
Flexural Strength Test of Beams (Including Unheld or Untested Beams)		\$36.34		\$37.43	
Splitting Tensile Test of Cylinders		\$36.34		\$37.43	
Modulus of Elasticity Tests					
Frame Method (2 Cylinders) Per Set		\$311.51		\$320.85	
Length Change of Hardened Cement, Mortar and Concrete Per Set		\$259.59		\$267.38	
Laboratory Trial Mix Batches					
3 Point Curve, Compressive Strength					
(Includes Engineering and Aggregate Testing for Gradation Specific Gravity & Absorption)		\$1,972.88		\$2,032.07	
3 Point Curve, Flexural Strength					
(Includes Engineering and Aggregate Testing for Gradation Specific Gravity & Absorption)		\$2,076.72		\$2,139.02	
Single Mix Compressive Strength (Includes Additional Mixes)		\$363.43		\$374.33	
Single Mix Flexural Strength		\$415.34		\$427.80	
Mix With Lightweight Aggregate (Additional Charge per mix (Aggregate Tests not included))		\$51.92		\$53.48	
Roller Compacted Concrete Laboratory Trial Mix		Quote on Request		Quote on Request	
Chloride Content					
Petrographic Examination		Quote on Request		Quote on Request	
Laboratory Coring		\$80.22	/hour	\$82.03	/hour
Concrete Freeze / Thaw Per Set		\$674.93		\$695.18	
Admixture Qualification					
Cement and Fly Ash Services					
Cement:					
Sulfate Expansion (ASTM C 452)		\$571.10		\$588.23	
Compressive Strength Tests (6 Cubes / Mix)		\$181.71		\$187.16	
Additional Cubes		\$20.77		\$21.39	

EXHIBIT C
FEE SCHEDULE –
ADDITIONAL SERVICES

Revised 25-Jan-07
Note: 3% increase applied to 2006 rates

	Time of Setting (Gilmore or Vicat)	\$145.37	\$149.73
	Density	\$72.69	\$74.87
	Fineness by Blaine or No. 325 Sieve (Air Permeability)	\$83.07	\$85.56
	Early Stiffening (Paste Method)	\$87.49	\$89.52
	Chemical Analysis	\$238.62	\$245.99
	Autoclave Expansion	\$176.52	\$181.82
	Air Content	\$114.22	\$117.65
	Tensile Briquets	\$342.66	\$352.94
	Cement Content of Hardened Concrete	\$597.06	\$614.87
	ASTM C 150, Standard Properties	\$623.02	\$641.71
	Fly Ash:		
	Loss on Ignition, Moisture	\$77.88	\$80.21
	Fineness, No. 325 Sieve	\$67.49	\$69.52
	Density	\$72.69	\$74.87
	Chemical Analysis	\$186.90	\$192.51
	Strength Activity (with Cement)	\$181.71	\$187.16
	Drying-Shrinkage (Mortar Bar Method) Per Set	\$181.71	\$187.16
	Autoclave Expansion Per Set	\$181.71	\$187.16
	Alkali Reactivity (Pyrex Glass)	\$448.49	\$459.89
	Available Alkalies	\$134.99	\$139.04
	ASTM C 618, Standard Properties	\$519.18	\$534.76
Masonry Laboratory Services			
	Block:		
	Compressive Strength Tests	\$36.34	\$37.43
	Q-Block Test Series	\$259.59	\$267.38
	British Shrinkage (3 Samples)	\$311.51	\$320.85
	Dimensional Analysis	\$41.53	\$42.78
	Fire Rating by UL 818	\$181.71	\$187.16
	Absorption Analysis	\$41.53	\$42.78
	Block Freeze / Thaw, 100 Cycle	\$778.77	\$802.13
	Block Freeze / Thaw, 200 Cycle	\$1,142.20	\$1,176.46
	Brick:		
	Compressive Strength Tests	\$36.34	\$37.43
	Coefficient of Saturation, Absorption Analysis	\$41.53	\$42.78
	Initial Rate of Absorption Per Set	\$72.69	\$74.87
	Dimensional Analysis	\$36.34	\$37.43
	Modulus of Rupture (Flexural Strength)	\$41.53	\$42.78
	Brick Freeze / Thaw, 50 cycle, ASTM C 67	\$436.11	\$449.19
	Mortar and Grout:		
	Mortar Mix (6 Cubes Per Mix)	\$181.71	\$187.16
	Water Retentivity Test	\$77.88	\$80.21
	Compressive Strength Tests and Preparation of Field - Sampled Mortar (6 Cubes)	\$129.80	\$133.69
	Compressive Strength Tests and Preparation of Grout Cored from Block	\$36.34	\$37.43
	Masonry Prisms (8-inch Width)		
	Hollow Prisms, Brick	\$62.30	\$64.17
	Hollow Prisms, Block - 2 Course Maximum	\$62.30	\$64.17
	Hollow Prisms, Block - Over 2 Courses	\$88.26	\$90.91
	Grout-Filled Prisms, Brick	\$88.26	\$90.91
	Grout-Filled Prisms, Block - 2 Course Maximum	\$72.69	\$74.87
	Grout-Filled Prisms, Block - Over 2 Courses	\$98.84	\$101.60
	Clay Tile, Flexural Strength	Quote on Request	Quote on Request
	Clay Tile, Absorption Analysis	Quote on Request	Quote on Request
	Masonry Prisms (10-inch or 12-inch Width), Add to Above Prices		
	Hollow Prisms	\$25.96	\$26.74
	Grout-Filled Prisms	\$51.92	\$53.48
	Laboratory Sawing of Specimens	67.49/hour	69.51/hour
Steel Laboratory Services			
	Ultimate Tensile Strength	\$93.45	\$96.26
	Percent Elongation	\$10.38	\$10.70
	Yield Strength	\$10.38	\$10.70
	Reduction of Area	\$10.38	\$10.70
	Hollow or Circular Samples	\$10.38	\$10.70
	Tensile Strength of Post Tension Strands Per Test	\$93.45	\$96.26