



CONSTRUCTION
TESTING SERVICES

INSPECTING
TESTING
ENGINEERING

2019 FEE SCHEDULE - P15986 7/15/19 - City of Sunnyvale On-Call QA
PERSONNEL FEES AND BASIS OF CHARGES
 INSPECTIONS, ENGINEERING & SPECIAL SERVICES

	Standard Rate/Hour	Discounted Rate/Hour
* FIELD INSPECTION AND LABORATORY SERVICE		
Steel	\$248.00	\$135.00
Nondestructive - UT, MT, PT	\$223.00	\$135.00
Steel Visual/UT Combination	\$223.00	\$135.00
Concrete ACI	\$248.00	\$135.00
Concrete ICC	\$248.00	\$135.00
Masonry	\$248.00	\$135.00
Fireproofing	\$248.00	\$135.00
Shear Wall Nailing/Framing/Hold Downs	\$248.00	\$135.00
Soil Technician w/Nuclear Gauge and/or Sand Cone (<i>portal-to-portal</i>)	\$248.00	\$135.00
Asphalt Technician (<i>portal-to-portal</i>)	\$248.00	\$135.00
Shoring/Soldier Piers	\$218.00	
Roofing & Waterproofing	\$218.00	
Multi-Disciplined Inspector	\$218.00	
Inspector Requiring G1 Pay Grade	\$253.00	
Specialty Inspector or Where Formal Certification is Required	\$218.00	
Field Inspector with Special Enhancement	\$218.00	
Laboratory Technician	\$218.00	
Technician Typist	\$218.00	
**PROFESSIONAL ENGINEERING SERVICES		
Principal Engineer (Civil/Structural)	\$353.00	
Geotechnical Engineer	\$303.00	\$260.00
Consulting Engineer (Civil/Structural)	\$273.00	\$230.00
Associate Engineer, Licensed	\$248.00	\$210.00
Project Manager	\$248.00	\$175.00
Staff Engineer	\$248.00	\$155.00
Field Supervision	\$193.00	\$155.00
ASNT Level III	\$258.00	
Drafting	\$153.00	
Quality Control Manager	QOR	
SPECIAL SERVICES		
Portable and Mobile Laboratories, NDT and Soils	QOR	
* Epoxy Bolt/Expansion Anchor - Installation Observation	\$248.00	\$135.00
* Epoxy Bolt/Expansion Anchor Proof Load Testing (<i>portal-to-portal</i>)	\$248.00	\$135.00
* Coring, 1 Person (including equipment) (<i>portal-to-portal</i>)	\$278.00	
* Coring, 2 Persons (including equipment) (<i>portal-to-portal</i>)	\$443.00	\$375.00
* Asphalt Coring (<i>portal-to-portal</i>)	\$303.00	\$250.00
Project Research	QOR	
Ultrasonic Testing for Non-Metallic Materials	QOR	
Pavement Rehabilitation Analysis Using Deflections	QOR	
Roof Moisture Survey	QOR	
Soil Drilling Equipment	QOR	
Geotechnical Site Investigations/Foundation Reports	QOR	
Pachometer, Schmidt Hammer, Windsor Probe, Skidmore - Equipment Fee \$115/Day (<i>portal-to-portal</i>)	\$288.00	
Floor Flatness Testing FF/FL - Equipment Fee \$115/Day (<i>portal-to-portal</i>)	\$288.00	
Measuring Moisture Vapor Emission Rate (Calcium Chloride) - \$55/Kit (<i>portal-to-portal</i>)	\$288.00	
Relative Humidity Testing - \$75/Kit (<i>portal-to-portal</i>)	\$288.00	
Ferrosan - Equipment Fee \$115/day (<i>portal-to-portal</i>)	\$288.00	
GPR - Equipment Fee \$115/day (<i>portal-to-portal</i>)	\$343.00	
Administration, Secretarial, Special Projects, Notary, Certified Payroll	\$463.00	\$130.00
Concrete/Grout/Mortar Mix Design Review (less than 48 hours notice - \$500)	\$345.00	\$275.00
Welding Procedure Review (less than 48 hours notice - \$500)	\$345.00	\$275.00
Welder Qualification Test Record (WQTR)	\$250.00	
DSA Interim Reports	\$178.00	
Geotechnical Pad Letter (less than 48 hours notice - \$550)	\$345.00	
Final Letter (less than 48 hours notice - \$550)	\$345.00	\$300.00
EXPERT WITNESS TESTIMONY		
Court appearance, per day	\$2,420.00	
Court appearance, per half day	\$1,210.00	

* Field inspection and laboratory technician services will be billed in accordance with minimums shown on Basis of Charges.

**Professional engineering services will be billed in two hour increments.

BASIS OF CHARGES

GENERAL

Fees for tests and inspection include cost of technician, normal equipment and regular reports. Engineering services will be charged at applicable rates and will require travel and mileage charges for equipment transport and storage per code (portal to portal) from the nearest CTS laboratory. Soils testing with nuclear gauge and/or sand cone equipment and inspections requiring equipment will require applicable travel and mileage charges for equipment transport and storage per code (portal-to-portal) from the nearest CTS laboratory. Fees for special projects, services overseas, or elsewhere in the United States, will be quoted on request. With prior notification to Client; charges are subject to change at any time. Construction Testing Services reserves the right to adjust the rates quoted in this contract based upon any Union or prevailing wage increases and/or changes in any industry requirements.

MINIMUM HOURLY CHARGES – INSPECTION

Technician personnel and the following minimum charges are contractual commitment:

One-half day or less	4 Hours
Over one-half day	8 Hours
Show-up time (less than 2 hours notice = 4 hour charge)	2 Hours

WORKING HOURS AND PREMIUM TIME

Regular workday is the first 8 hours between 6:00 am and 6:00 pm Monday through Friday. Premium time is as follows:

Overtime, Weekdays and Saturdays (first 8 hours)	1.5 x quoted hourly rate
Overtime Saturdays (over 8 hours) and Sundays (first 8 hours)	2 x quoted hourly rate
Overtime Sundays (over 8 hours) and Holidays	3 x quoted hourly rate
Shift differential, swing and graveyard - (Work performed between 2:00 pm and 4:00 am)	12.5%/hour additional to base or quoted rate.

MISCELLANEOUS CHARGES - *Only Where Applicable*

Notary Services Fee	\$40.00/each
Facsimile Charges. Plus \$1.00/page (n/c for cover page)	\$7.00/minimum
Wireless Router/Data Card for Jobsite Internet	\$135.00/day
iPad Monthly Rental Fee	\$100.00/month
Electronic Reporting Fees/Subscriptions (PlanGrid, BIM, etc.)	At Cost
Parking Fees	At Cost
Air Travel	Cost Plus 10%
Outside Services	Cost Plus 20%
Subsistence (per union contract)	\$130.00/day
Mileage	Standard Federal Rate
Sample Pickup	\$26.00/each
Weekend Sample Pickup	\$105.00/each
Project Administration	12% of Monthly Invoice
Samples Made by Others: Concrete Cylinders	\$130 + Test
Samples Made by Others: All Other Tests	\$55.00 + Test
Laboratory Sample Witness Fee	\$130.00
Laboratory Sample Storage Fee (per sample)	\$120.00
EZ Cure Boxes (Thermostatically Controlled Curing Boxes)	QOR
Returned Check Fee	\$150.00

TESTS

Testing fees shown include normal time for performing test. Samples requiring special preparation will be charged at the laboratory technician rate. Fees for tests not listed will be quoted upon request. There will be a minimum charge of \$100.00 for any engineering report. Please note some tests maybe tested by subconsultants. Samples delivered to the laboratory after 3:00pm or samples needing results within 24 hours will incur a 50% mark-up.

INSURANCE

The liability of Construction Testing Services (CTS) is limited to CTS's contract value.

PAYMENT

Invoices will be submitted monthly or bimonthly for services performed during the preceding month and are payable on receipt. Interest of 1.5% per month (but not exceeding the maximum rate allowable by law) will be payable on any amounts not paid within 30 days, payment thereafter to be applied first to accrued interest and then to the principle unpaid amount. Attorney's fees or other costs incurred in collecting any delinquent amount shall be paid by client. Visa, MasterCard and American Express payments are accepted however fees will apply. Visa and MasterCard payments require an additional 3% on top of the amount of the invoice being paid. American Express payments require an additional 4% on top of the amount of the invoice being paid.



CONCRETE AND MASONRY TESTS

CONCRETE		Standard Rate/Each	Discounted Rate/Each
Compressive Strength of Cylindrical Concrete Specimens (6x12)	ASTM C39	\$84.00	\$45.00
Compressive Strength of Cylindrical Concrete Specimens (4x8)	ASTM C39	\$84.00	\$45.00
Compressive Strength of Cylindrical Concrete Specimens (Over 8000 PSI)	ASTM C39	\$143.00	
Cylinder molds. 6" x 12" and 4" x 8"	ASTM C470	\$72.00	
Compressive Strength of Lightweight Insulating Concrete	ASTM C495	\$94.00	
Obtaining and Testing Sawed Beams and Drilled Cores of Concrete (Cores)	ASTM C42	\$121.00	
Flexural Toughness of Fiber Reinforced Concrete (Round Panel)	ASTM C1550	\$440.00	
Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	ASTM C78	\$308.00	
Flex Beams per Caltrans Test Methods	CT523 and CT524	\$308.00	
Length Change of Hardened Hydraulic-Cement Mortar and Concrete (Shrinkage, 1 Sample)	ASTM C157	\$150.00	
Shotcrete Nozzleman Qualification Letter (Per Nozzleman, Per Position)	ACI 506, ASTM C42 and C1140	\$440.00	\$300.00
Shotcrete Pre-Qualification Cores (Compression and Visual)	ACI 506, ASTM C42 and C1140	\$440.00	\$65.00
Shotcrete Production Cores	ASTM C1140	\$140.00	\$65.00
Coefficient of Thermal Expansion	AASHTO T336	\$535.00	
Determining Density of Structural Lightweight Concrete (Cylinders)	ASTM C567	\$405.00	
Standard Specification for Concrete Made by Volumetric Batching and Mixing	ASTM C685	\$965.00	
Cement Quality Sampling	CBC 2010	\$667.00	
Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	ASTM C472	\$55.00	
Splitting Tensile Strength of Cylindrical Concrete Specimens	ASTM C496	\$253.00	
Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	ASTM C469	\$215.00	
Grab Sample, Sealing and Storing in a Humidity and Temperature Controlled Room	CBC	\$150.00	
Density of Hydraulic Cement	ASTM C188	\$195.00	
Testing of Controlled Low Strength Material (CLSM) Test Cylinders	ASTM D4832	\$150.00	
GFRC Pull Test	PCI	\$374.00	
GFRC Flexural Test	PCI	\$374.00	
Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam (Cell-Crete)	ASTM C796	\$525.00	
MASONRY			
Compressive Testing of Grout (Masonry)	ASTM C1019	\$124.00	\$75.00
Compressive Strength of Hydraulic Cement Mortars Using 2" Cube Specimens	ASTM C109	\$124.00	\$75.00
Compressive Strength of Masonry Prisms	ASTM C1314	\$187.00	\$110.00
Testing Concrete Masonry Units and Related Units (Core Compression)	CBC 2105A.4	\$187.00	
Compressive Strength of Molded Masonry Mortar Cylinders and Cubes (2" Sample)	ASTM C780 A7.6	\$124.00	\$75.00
Testing Concrete Masonry Units (CMU) and Related Units (Full Unit)	ASTM C140	\$184.00	
Linear Drying Shrinkage of Concrete Masonry Units (Per Unit)	ASTM C426	\$270.00	
Masonry Core Shear Testing	CBC 2105A.4	\$270.00	
Testing Concrete Masonry Units (Absorption, Moisture Content, Unit Weight)	ASTM C140	\$340.00	
Brick and Clay Tile (modulus of rupture, compression, saturation coefficient, suction rate, efflorescence)*	ASTM C67	\$1,000.00	
Mortar Molds. 2" x 4". Single Use		\$121.00	
Mortar or Grout, Stored and Cured, Not Tested (Including Mold)		\$121.00	
AGGREGATES (SOILS AND CONCRETE)			
Determining Sieve Analysis of Fine and Coarse Aggregates (Coarse Only)	CT202/ASTM C136	\$220.00	\$125.00
Sieve Analysis of Fine and Coarse Aggregates (Fine Only)	CT202/ASTM C136	\$295.00	
Sieve Analysis of Fine and Coarse Aggregates (Wash Included)	CT202/ASTM C117	\$370.00	
Sieve Analysis of Fine and Coarse Aggregates (200 Wash Only)	ASTM C117	\$220.00	
Evaluating Cleanness of Coarse Aggregate	CT227	\$370.00	
Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/CT214	\$275.00	
Unit Weight of Aggregate	CT212	\$158.00	
Clay Lumps and Friable Particles in Aggregates	ASTM C142	\$215.00	
Flat Particles, Elongated Particles or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791/CT235	\$370.00	
Organic Impurities in Fine Aggregates for Concrete	CT213/ASTM C40	\$336.00	
Density, Relative Density(Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127/CT206	\$336.00	
Density, Relative Density(Specific Gravity), and Absorption of Fine Aggregate	ASTM C128/CT207	\$336.00	
Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131(535) and C211	\$535.00	
Percentage of Crushed Particles/Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821/CT205	\$405.00	
Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)	ASTM C1252/AASHTO T304A	\$405.00	
Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419/CT217	\$270.00	\$200.00
Durability Index (Fine)	ASTM D3744/CT229	\$405.00	
Durability Index (Coarse)	ASTM D3744/CT229	\$405.00	
Durability Index (Fine and Coarse)	ASTM D 3744/CT229	\$405.00	
Lightweight Particles in Aggregate	ASTM C123/AASHTO T113	QOR	
Resistance of Rock to Wetting and Drying	CRD-C169	\$590.00	

*Unusual sample preparation for brick specimen will be charged at the established hourly rate.



SOILS, AGGREGATE, ASPHALTIC CONCRETE SERVICES & TESTS

SOILS		Standard Rate/Each	Discounted Rate/Each
Direct Shear Test of Soils Under Consolidated Drained Conditions	ASTM D3080	\$535.00	
Caltrans Corrosivity Package		\$505.00	
Determining Field and Laboratory Resistivity and pH Measurements for Soil and Water	CT643	QOR	
Soils and Waters for Sulfate Content	CT417	QOR	
Soils and Waters for Chloride Content	CT422	QOR	
Particle-Size Analysis of Soils (with Hydrometer)	ASTM D422	\$590.00	
Pore Water Extraction and Determination of the Soluble Salt Content of Soils by Refractometer	ASTM D4542	\$625.00	
Standard Test Method for Particle-Size Analysis of Soils (without Hydrometer)	ASTM D422	\$535.00	
Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318/CT204	\$535.00	\$350.00
Laboratory Compaction Characteristics of Soil Using Modified/Standard Effort	ASTM D1557/D698	\$502.00	\$300.00
Hydrometer Only	ASTM D422	\$535.00	
pH of Soils	ASTM D4972	\$467.00	
Relative Compaction of Untreated and Treated Soils and Aggregates	CT216	\$590.00	\$325.00
Determining the Resistance "R" Value of Treated and Untreated Bases, Subbases, and Basement Soils by the Stabilometer		\$590.00	
Laboratory Determination of Water(*moisture) Content of Soil and Rock by Mass	ASTM D2216/CT226	\$150.00	
Density of Soil in Place by the Drive-Cylinder Method	D2937	\$116.00	
Expansion Index of Soils	ASTM D4829	\$405.00	
Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter (Permeability)		\$550.00	
Lab Compaction Characteristics of Soil 1 Point Proctor (Check Point)	ASTM D5084/CT220		
Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	ASTM D698/D1557	\$337.00	
Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	ASTM D4253	\$285.00	
Density of Hydraulic Cement	ASTM D4254	\$285.00	
Volatile Organic Content	ASTM C188	\$253.00	
Semi Volatile Organics by GC/MS (Basic Target List)	EPA 8260B	QOR	
Total Organic Carbon	EPA 8270C	QOR	
ICP Metals Concentration	ASTM 2974/EPA 5310Bm	QOR	
Total Extractable Petroleum Hydrocarbons: TPH, MTBE, Benzene, Toluene, Ethylbenzene, Zylenes, %SS	EPA 6020 - CAM/CCR 17	QOR	
ICP Metals Concentration	EPA 8015B	QOR	
pH	EPA 6020	QOR	
Sequential Batch Extraction of Waste with Acidic Extraction Fluid	EPA 9045D	\$535.00	
Chromium Soluble	ASTM D5284	QOR	
Moisture, Ash and Organic Matter of Peat and Other Organic Soils (Organic Content)	EPA 7196A	QOR	
Universal Soil Classification System (USCS) Test	ASTM D2974	\$270.00	
California Bearing Ratio Test	ASTM D2487	\$300.00	
Unconfined Compressive Strength of Cohesive Soil	ASTM D1883	\$370.00	
	ASTM D2166/CT221	\$187.00	
ASPHALT			
Quantitative Extraction of Bitumen from Bituminous Paving Mixtures (Solvent)	ASTM D2172/CT310	\$732.00	
Determining Low Temperature Performance Grade (PG) of Asphalt Binders	ASTM 6816	QOR	
Thickness/Height of Compacted Bituminous Paving Mixture Specimens (Cores)	ASTM D3549/CT308	\$270.00	\$150.00
Method of Prep of Bituminous Mixture Test Specimens	ASTM D6926/CT304	\$270.00	
	ASTM D1188 and D2726/CT308	\$990.00	\$400.00
Bulk Specific Gravity and Density of Compacted Bituminous Mixtures (LTMD)	ASTM D6931/CT371	\$3,146.00	
Indirect Tensile (IDT) Strength of Bituminous Mixtures (TSR)	ASTM D5444/CT202	\$405.00	
Mechanical Size Analysis (Coarse and Fine) of Extracted Aggregate	ASTM D6927	\$990.00	
Marshall Stability and Flow of Bituminous Mixtures	ASTM D2041/CT309	\$405.00	\$300.00
Theoretical Maximum Specific Gravity and Density (Rice)	CT341	QOR	
Measuring the Permeability of Bituminous Pavements and Seal Coats	CT305	\$370.00	
Swell of Bituminous Mixtures	ASTM D1461/CT307	\$930.00	
Moisture Vapor Susceptibility of Bituminous Mixtures/Moisture or Volatile Distillates in Asphalt Stabilometer Value (1 sample)	CT366	\$370.00	
Determination of Asphalt Content of Bituminous Paving Mixtures by the Ignition Method	CT382/ASTM D6307	\$405.00	
Determination of Correction Factor of Bituminous Paving Mixtures by the Ignition Method	CT382/ASTM D6307	\$405.00	
Determination of Asphalt and Moisture Contents of Bituminous Mixtures by Microwave Oven	CT370	\$405.00	
Effect of Water on Compressive Strength of Compacted Bituminous Mixtures (Set of 6)	ASTM D1075	\$3,330.00	
Compressive Strength of Bituminous Mixtures	ASTM D1074	\$270.00	
Hamburg Wheel Track	AASHTO T324	\$3,630.00	
Moisture Susceptibility	AASHTO T283	\$3,630.00	

* Unusual sample preparation (dried clays, saturated clays, etc.) and all other tests for treated or untreated soils, aggregate subbase and aggregate base will be charged at established rates for laboratory technician.

** Does not include sample preparation or sieve analysis



		Standard Rate/Each
MATERIALS MECHANICAL TESTS		
Mechanical Testing of Steel Products (General Tensile)	ASTM A370	\$470.00
Fillet Weld Break Test for Qualification (Welding)	AWS B4.0	\$205.00
Tension Testing of Metallic Materials, Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products, (Welding Coupon Tensile)	ASTM E8, B557 and AWS B4.0	\$470.00
Mechanical Testing of Steel Products (Couplers)	ASTM A370	\$460.00
Impact Testing of Miniaturized Charpy V-Notch Specimens, Notched Bar Impact Testing of Metallic Materials	ASTM E2248 and ASTM E23	QOR
Testing, Practices, and Terminology for Chemical Analysis of Steel Products	ASTM A751	\$336.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #3-#8	ASTM A370 and E290	\$370.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #9-#11	ASTM A370 and E290	\$440.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #14+	ASTM A370 and E290	QOR
Mechanical Testing of Steel Products, Standard Specification for Steel Wire, Plain, for Concrete Reinforcement		\$440.00
Guided Bend Test for Ductility of Welds, Mechanical Testing of Welds	ASTM A370, A82 and A185	
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Anchor Bolts Only (Tension and Yield)	ASTM E190 and AWS B4.0	\$270.00
Rockwell Hardness of Metallic Materials	ASTM F307, F1554 and F606	\$528.00
Proof Test for Carbon and Alloy Steel (Nuts Only)	ASTM E18	\$150.00
Radiographic Examination of Metallic Castings/Weldments	ASTM A194 or A563	\$337.00
Macroetching Metals and Alloys	ASTM E94, E1030 and E1032	QOR
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets (HSB Assemblies)	ASTM E340, E381 and AWS	\$337.00
Mechanical Testing of Steel Products (Terminators Tensile)	ASTM F606	\$370.00
Strength for Sewn or Bonded Seams of Geotextiles	ASTM A370	\$370.00
Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure	ASTM D4884	\$336.00
Breaking Strength and Elongation of Textile Fabrics (Grab Test)	ASTM D2261	\$336.00
Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars	ASTM D5034	\$270.00
Steel Strand, Uncoated Seven-Wire for Prestressed Concrete	ASTM D3039	\$990.00
	ASTM A416 and A1061	\$1,463.00
FIREPROOFING		
Thickness and Density of Sprayed Fire-Resistive Material (SFRM)	ASTM E605	\$270.00
Cohesion/Adhesion of Sprayed Fire-Resistive Materials (Test Kit Only)	ASTM E736	\$77.00

CONTACT INFORMATION

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**APPLIED MATERIALS & ENGINEERING, INC.**980 41st Street
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FAX: (510) 420-8186
e-mail: info@appmateng.com**RFQL F19-149 CITY OF SUNNYVALE
2019 FEE SCHEDULE**

The following hourly inspection rates are per State and Federal prevailing wage requirements and will be adjusted as per State/Federal increases. The next increase is scheduled for October 1, 2019.

INSPECTION RATES**Per Hour**

1 Reinforced & PT Concrete	\$98.00
2 Shotcrete	\$98.00
3 High Strength Grout	\$98.00
4 Structural Masonry	\$98.00
5 Structural Steel	\$98.00
6 Wood or Metal Framing	\$98.00
7 Anchor/Dowel Testing	\$103.00
8 Fireproofing	\$98.00
9 FRP Application	\$98.00
10 Compaction Testing (Soils, Aggregate or Hotmix Asphalt)	\$103.00

UNIT TEST COSTS**Per Set****SPECIAL INSPECTION DISCIPLINES**

1 Concrete Cylinders, per set of 5 (includes pick-up)	\$260.00
2 PT Concrete Cylinders, per set 6 (includes pick-up)	\$260.00
3 PT Strand Tensile, each	\$350.00
4 Shotcrete cores for Nozzleman Qualifications, per set of 3*	\$1,500.00
5 Shotcrete Cores, production, per set of 3 (includes pick-up)	\$300.00
6 Masonry Mortar, per set of 3 (includes pick-up)	\$180.00
7 Masonry Grout, per set of 3 (includes pick-up)	\$200.00
8 Masonry Composite Prisms, per set 3 (includes pick-up)	\$450.00
9 High Strength Grout, per set 6 (includes pick-up)	\$270.00
10 Reinforcing Steel Tensile Test (up to # 10), each	\$110.00
11 Reinforcing Steel Tensile Test (# 10-14), each	\$150.00
12 Reinforcing Steel Bend Test (up to # 10), each	\$150.00
13 High Strength Bolt Tensile Properties, per set of 3	\$375.00
14 High Strength Nut Hardness & Proof Load, per set of 3	\$375.00
15 High Strength Washer Hardness & Proof Load, per set of 3	\$375.00
16 FRP Tensile Properties ASTM D3039, per set	\$650.00
17 FRP Bond Strength ASTM D7522, per set	\$750.00
18 Moisture Density Curve, each	\$450.00
19 Fireproofing Density, each	\$120.00
20 Fireproofing Bond Strength, each	\$375.00

* for walls up to 12" thick with nominal reinforcing upto # 8 in size. Extra fees will be applicable for larger bars and for boundary conditions.

SOILS & ASPHALT

1 Sieve Analysis, each	\$240.00
2 Sand Equivalent, each	\$125.00
3 Cleanness Value, each	\$280.00
4 Moisture Content, each	\$55.00
5 Percent Crushed Particle, each	\$250.00
6 Flat & Elongated Particles, each	\$250.00
7 Atterberg Limits, each	\$280.00
8 R-value, each	\$450.00
9 Stabilometer Value - field sample, per set of 3	\$450.00
10 Theoretical Maximum Density, each	\$240.00
11 Asphalt Content, each	\$220.00
12 Asphalt Content- Calibration Factor, each	\$350.00
13 HMA Air Voids, each	\$65.00
14 HMA Bulk Specific Gravity, each	\$65.00
15 Hamburg Wheel Tracker, each	\$1,500.00
16 HMA Tensile Strength Ratio, each	\$1,300.00
17 LA Abrasion, each	\$500.00
18 Fine Angularity, each	\$250.00
19 Void in Mineral Aggregate, each	\$250.00
20 Dust Proportions, each	\$230.00
21 Superpave Production Startup, each	\$4,500.00
22 Superpave JMF Verification, each	\$7,500.00
23 Marshall Compaction- field sample, per set of 3	\$750.00
24 Marshall Stability, per set of 3	\$450.00

OTHER COSTS

Per Hour

1 Administrative Staff	\$70.00
2 Project Manager	\$175.00
3 Principal	\$225.00
4 Final Affidavit, each	\$300.00

BASIS OF CHARGES

Minimum charge per call-out, show-up:	4 Hours
Minimum notice for scheduling inspections:	48 Hours
Work from 4-8 hours:	Actual Time
Travel to job site or shop:	Portal-to-Portal
Mileage:	\$0.60
Parking:	To be provided
Work over 8 hours per day, or on Saturday, per hour	Time & One Half
Work on Sundays and Holidays, per hour	Double Time
Night Differential, per hour	\$30.00 per hour

END

2018-2019 SCHEDULE OF FEES AND SERVICES**PROFESSIONAL SERVICES**

1000	Expert Witness.....	\$365.00/hour
1005	Principal Engineer.....	215.00/hour
1010	Geotechnical Engineer.....	190.00/hour
1015	Project Engineer / Executive.....	180.00/hour
1020	Staff Engineer.....	170.00/hour
1025	Project Manager.....	170.00/hour
1030	Quality Control Manager.....	160.00/hour
1032	Lead Construction Inspector /Resident Inspector.....	150.00/hour
1035	Laboratory Technician.....	120.00/hour
1040	Technical Assistant, Administrative, Draftsman.....	90.00/hour

INSPECTION AND TESTING SERVICES**Soils / Asphalt Concrete:**

2001	Soil Compaction Testing & Observation.....	\$120.00/hour
2104	Soils Observation & Sampling w/o compaction.....	120.00/hour
2102	AC Compaction Testing & Observation.....	120.00/hour
2111	AC Placement Obs. & Sampling w/o compaction.....	120.00/hour
2105	AC Batch Plant Inspection / Sampling.....	120.00/hour
2110	Material Sampling / Transportation.....	120.00/hour
2205	Pile / Pier Installation Observation.....	140.00/hour

Portland Cement Concrete / Shotcrete / Gunite:

3103	Concrete Placement Inspection.....	\$120.00/hour
3104	Concrete Sampling Only.....	120.00/hour
3105	PCC Batch Plant Inspection.....	120.00/hour
3110	NS Grout Inspection / Sampling.....	120.00/hour
3123	Prestressed Concrete Pile Plant Inspection.....	120.00/hour
3503	Shotcrete / Gunite Placement Inspection.....	120.00/hour
3501	DSA Shotcrete / Gunite Placement Inspection.....	140.00/hour

Reinforcing Steel / PT Strand:

3102	Rebar Placement Inspection.....	\$120.00/hour
3609	Rebar / PT Strand ID Sampling / Tagging.....	120.00/hour
3208	PT Strand Stressing Inspection.....	120.00/hour

Masonry:

3701	DSA Continuous Masonry Inspection.....	\$140.00/hour
3703	Continuous Masonry Inspection.....	120.00/hour
3706	Masonry Brick / Veneer Inspection.....	120.00/hour
3710	Periodic Masonry Inspection.....	120.00/hour
3715	Masonry Sampling / Tagging.....	120.00/hour

FIELD TESTING EQUIPMENT RATES

1610	Anchor Load / Epoxy Tester / Torque Wrench...	\$20.00/hour
1611	Nuclear Gauge or Sand Cone.....	20.00/hour
1612	Skidmore Wilhelm H. S. Bolt Calibrator.....	35.00/hour
1613	UT / MT / PT Gauge.....	20.00/hour
1614	Floor Flatness.....	65.00/hour
1615	Paint Coating Gauge / Moisture Meter.....	15.00/hour
1617	Ground Penetrating Radar.....	65.00/hour

Structural Steel:

5101	Field Welding Inspection.....	\$120.00/hour
5103	High Strength Bolting Inspection.....	120.00/hour
5104	Field UT Testing.....	120.00/hour
5105	Field MT Testing.....	120.00/hour
5106	Field PT Testing.....	120.00/hour
5201	Shop Welding Inspection.....	120.00/hour
5202	Shop MT Testing.....	120.00/hour
5203	Shop PT Testing.....	120.00/hour
5204	Shop UT Testing.....	120.00/hour
5205	Shop Material ID.....	120.00/hour

Spray-Applied Fire Resistive Materials (SFRM) Fireproofing:

6002	SFRM Application of SFRM.....	\$120.00/hour
6002	SFRM Field Measure Thickness.....	120.00/hour
6002	SFRM Sampling.....	120.00/hour
6003	SFRM Bond Strength Testing.....	120.00/hour

Roof / Wood / Waterproofing Division:

7003	Built-up Roofing Placement Inspection.....	\$135.00/hour
7004	Diaphragm Nailing Inspection.....	120.00/hour
7005	Shear Wall Nailing Inspection.....	120.00/hour
7060	Waterproofing Inspection.....	145.00/hour
7005	Glue Laminated Beam Inspection.....	195.00/hour

Specialty Testing Division:

9001	Anchor Load / Torque Testing.....	\$120.00/hour
9006	Witness Dowel / Anchor Installation.....	120.00/hour
9008	Pachometer.....	150.00/hour
9007	Schmidt Hammer Testing.....	150.00/hour
9011	Ground Penetrating Radar Survey (GPR).....	225.00/hour
8161	Floor Flatness Survey (Dipstick).....	195.00/hour
8220	Moisture Vapor Emission Testing.....	140.00/hour
7062	Moisture Content Testing.....	150.00/hour
9703	Coatings Inspection.....	150.00/hour
3108	Coring Technician, One Man.....	225.00/hour
9705	Specialty Technician (FRP, Profometer, etc).....	195.00/hour

Sample Pick-Up and Equipment Transport:

0209	Pick-Up / Delivery.....	\$90.00/hour
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Transportation of samples when scheduled outside of normal business hours will incur premium rates and 4/hour minimums. Note: Above rates shall be defined as "Basic Rates"; these rates do not include any applicable premium rates as presented in the Basis of Charges.

1618	Pachometer / Profometer / Schmidt Hammer.....	\$25.00/hour
1619	Coring Equipment (Drill, bits, generator, etc.).....	75.00/hour
1620	Core Barrel Usage (per inch drilled).....	15.00/inch
1621	Fireproofing Cohesion / Vapor Emission / RH....	85.00/each
1622	FRP Test Pucks.....	60.00/each
1160	Concrete Testing (Air Meter, Slump, Scale).....	15.00/hour
0221	Project Laptop Computer / Smart Tablet.....	20.00/day

BASIS OF CHARGES

Signet is signatory to a labor agreement with Operating Engineers Local Union No. 3 (OE3) and our inspection and testing personnel are members of OE3. With consideration of Prevailing Wage requirements, as determined by the California Department of Industrial Relations, and the labor agreement with OE3, we have minimum charges for field services and premium time rates that correspond to labor costs as set within the prevailing wage determination, OE3 labor agreement requirements, and our overall cost structure. Including:

Minimums & Increments:	Hours
Show-Up Cancellation Time*	2
Work Performed 0-4 hours	4
Work Performed 4-8 hours	8
Work + 8 hours	2
When required to work thru lunch	0.5 Hr @ 2X Basic Rate
Project Minimum Charge	\$885.00

* Show-up time for scheduled work with no work performed and notice of cancellation of less than 4 hours (notice must be provided by telephone to our dispatcher during normal business hours of 7 AM to 4 PM). Premium time rates will apply for work performed outside of normal business hours.

Premium Charges Added to Hourly Rates*:

Shift Differential**	Rate + 20%
Over 8 hours on Weekdays	1.5 x Basic Rate
First 8 hours on Saturday	1.5 x Basic Rate
Over 12 hours on Weekdays	2 x Basic Rate
Over 8 hours on Saturday	2 x Basic Rate
Sunday and Holidays	2 x Basic Rate

* Shall also apply to Professional Services Staff

** For shifts beginning after 2:00 PM or before 4:00 AM where more than 5 consecutive days of service is scheduled for the shift inspector. Less than 5 days of consecutive shift work will result in additional charges including OT and DT due to rescheduling staff around normal workday schedules.

Travel Time:

Services, including mileage and travel time, are charged portal to portal from point of dispatch. Travel time will be invoiced in accordance with the associated service rate and when applicable include any premium charges associated with performing the work. Where specialty equipment is required, such as a nuclear density gauge which must be stored at our State licensed facility, or proof-load test equipment, the inspector's or technician's reporting location is the laboratory.

Reimbursable Expenses:

0217	Trip Charge (25/mile radius of Signet office)	\$85.00/Trip
0218	Trip Charge (25-50/mile radius of Signet office)	95.00/Trip
0218	Trip Charge (50/mile + of Signet office)	145.00/Trip
0208	Mileage (beyond 50-mile radius of Signet office)	0.75/Mile
1201	Travel Time	Service Rate
0206	Specialty Vehicle Charge (when required)	Cost +20%
0205	Per Diem (or Cost + 20% whichever is greater)	145.00/Day
0207	Equip. Rental / Cure Box / Notary / Expenses	Cost + 20%
0105	Outside / Subcontracted Services	Cost + 20%
0204	Parking / Tolls	Cost + 20%

Final Reports (Special Inspection Projects Only):

0215	Engineer's Final Report Letter	\$375.00 Each
0216	DSA/OSHPD Verified Report	525.00 Each

Expedited Services (Rush Charge):

Where laboratory tests are to be performed on an immediate need basis (tests to be initiated out of order received and regardless of status of other previously received samples) the expediting fee is 100% of the associated unit rate. Same day request for engineering, technical or field inspection service and accelerated final report processing shall be billed an expediting fee of 50% of the associated unit rate.

Project Coordination, Engineering, and Management:

1. A minimum of one-half hour per \$5,000 in invoiced services per week will be charged for Project Engineer to review daily field reports, prepare and update non-conformance/exception tracking records, and preparation of a weekly summary report.
2. Project Engineer / Project Manager performing review of contractor submittals, laboratory test results, and other professional services are billed two-hour minimum/increment.
3. Special Handling Fee will be added to all invoices for Client required customization to standard processes such as billing, certified payroll, pay applications, special dispatch requests, etc.....3%
4. Project Administration Fee will be added to all invoices to cover project administration costs related to office project coordination, standard dispatch, report processing, typing, postage, and on-line access to all reports.....15%

Invoices will be submitted on a bi-weekly basis and are due upon receipt. Unpaid invoices aging beyond 30 days of the invoice date are subject to late charges equal to 1.5 % per month until paid. All services are billed on a time and material basis in accordance with this schedule of fees and/or, if provided, a project specific fee proposal. It is the client's responsibility to notify Signet in writing prior to the start of work affected by Prevailing Wage requirements that may be imposed on the project. Failure to properly notify Signet will result in customer being responsible for all fees, penalties, or other costs associated with meeting these requirements. In addition, all affected rates will be increased 30 percent to account for additional costs to comply with prevailing wage requirements not identified in advance of submitting this schedule of fees and/or our project specific fee proposal.

Coordinated Inspections: If Signet or its agents will be performing in-shop inspections of fabrication or assembly, Client understands that Signet may perform coordinated inspections and bill accordingly. The industry standard requires that continuous inspection mandates a continuous presence in the facility for assembly or fabrication.

Anticipated Costs: Client recognizes and agrees that any "anticipated costs", "budget estimates", or the like that may be prepared by Signet are NOT "guaranteed maximums", "lump sums", or "not-to-exceed" totals. Client will be invoiced for all work performed.

Subcontractors: As required to accommodate the construction schedule, Signet may use contract special inspectors to augment our staff. Inspections performed by contract providers will be billed as specified for Signet employees.

Our Fee Schedule and project specific rates are valid through June 30 of each year and are subject to a minimum increase of 3.0 – 5.0% on July 1. For services performed after June 30 fees for any on-going projects will be subject to this increase based on OE3 labor and benefits increases and cost of living adjustments.

LABORATORY TESTING

SOILS AND AGGREGATES

Aggregate Property Tests:

Acid Solubility
4260 \$200.00 each

Aggregate Angularity AASHTO T304
4245 Fine Aggregate 255.00 each

Clay lumps and Friable Particles ASTM C142
4211 185.00 each

Cleaness Value CTM 227
4213 1" x #4 (or finer) 225.00 each
4214 1-1/2" x 3/4" 425.00 each
4290 2-1/2" x 1-1/2" 750.00 each
4291 Pit Run 360.00 each

Crushed Particles (percent) CTM 205
4225 195.00 each

Durability Index CTM 229
4230 Course Fraction 265.00 each
4231 Fine Fraction 265.00 each

Flat and Elongated Particles ASTM D4791
4224 195.00 each

Los Angeles (LA) Abrasion and Impact ASTM C131/CTM 211
4219 500 revolutions 295.00 each
4220 100 & 500 revolutions 395.00 each

Los Angeles (LA) Abrasion and Impact ASTM C535
4221 (for large size coarse aggregate) 1000 revolutions 495.00 each

Mohs Hardness
4261 295.00 each

Organic Impurities in Fine Aggregates ASTM C40 / CTM 213
4209 165.00 each

Relative Mortar Strength Of Portland Cement Concrete Sand CTM 515
4270 675.00 each

Sand Equivalent ASTM D2419/CTM 217
4212 265.00 each

Soundness of Aggregates ASTM C88/CTM 214
4207 by use of sodium or magnesium sulfate, fine or coarse,
5 cycles (billed per fraction, minimum charge \$350.00) 195.00 each

Specific Gravity & Absorption
4215 Fine Aggregate ASTM C128/CTM 207 195.00 each
4216 Course Aggregate ASTM C127/CTM 206 195.00 each

Unit Weight (Bulk Density) and Voids in Aggregate ASTM C29/CTM 212
4210 Unit weight (average of 3 tests) 195.00 each

Voids in Mineral Aggregate CTM LP-2
4246 Calculated 165.00 each

Compaction Characteristics - Moisture / Density Relationships:

Standard Proctor ASTM D698 / AASHTO T99
2237 4" mold \$375.00 each
2238 6" mold 425.00 each
2242 Checkpoint for identification of material 195.00 each

Modified Proctor ASTM D1557 / AASHTO T180
2239 4" mold 375.00 each
2240 6" mold 425.00 each
2242 Checkpoint for identification of material 225.00 each

Rock Correction of Moisture/Density Curve ASTM D4718
4208 185.00 each

California Impact CTM 216
2243 425.00 each

Classification and Index Tests:

Atterberg Limits (Plasticity Index) ASTM D4318
2225 Dry Prep Method B \$295.00 each
2226 Wet Prep Method A 320.00 each

Classification of Soils (Unified Soil Classification System ASTM D2487
2234 Visual Classification 85.00 each
2269 Stiffness by Torvane/Pocket Penetrometer 85.00 each

Moisture Content ASTM D2216
2221 Individual test 65.00 each

Moisture and Density ASTM D7263b
2222 Sample Diameter to 3" 135.00 each
2223 Sample to 6" Diameter 175.00 each

Organic Content of Peat and Other Organic Soil ASTM D2974
2233 225.00 each

Particle Size Analysis ASTM C136/CTM 202
4203 Coarse aggregate (#4 to 1-1/2" maximum) 225.00 each
4204 Coarse aggregate (#4 to 3") 295.00 each
4205 Total sieve coarse and fine (to 1-1/2" maximum) 395.00 each
4206 Fine aggregate (#4 to #200 w/wash) 195.00 each
4226 Sieve analysis pit run with #200 wash 365.00 each
4202 #200 Wash on Aggregate ASTM C117 195.00 each
2227 #200 Wash on Soil ASTM D1140 195.00 each

Particle Size Analysis ASTM D422
2228 Sieve (from 1/2" to #200) 195.00 each
2229 Sieve (from 1-1/2" to #200) 295.00 each
2230 Sieve (from 3" to #200) 275.00 each
2231 Hydrometer test w/ sieve D422/ CTM 203 385.00 each

pH of Soil CTM 643/AASHTO T-228
4402 165.00 each

Pinhole Test (Classification of Dispersive Clay) ASTM D4647
2235 575.00 each

Porosity (Total)
4280 Includes ASTM D7263 & ASTM D854 225.00 each

Specific Gravity Of Soils
4228 by hydrometer ASTM D854/CTM 203 245.00 each
2232 (-#4) by pycnometer ASTM D854/CTM 209 225.00 each

GEOTECHNICAL LABORATORY

Consolidation Properties:

2256 Consolidation (1 cycle, 1 time rate) ASTM D2435 \$385.00 each
2257 For each additional Time-Rate curve 165.00 each
2258 Unload-Reload loop (per point) 75.00 each
2259 Trim to test from 3" sample 65.00 each

Expansion & Collapse Tests:

2261 Expansion Index UBC / ASTM D4829 \$390.00 each
One-Dimensional Swell or Collapse ASTM D4546
2210 Method A (4-point curve) 900.00 each
2211 Method B 340.00 each
2212 Method C 360.00 each
2263 Collapse potential ASTM D5333 200.00 each
2264 Shrink-Swell ASTM D3877 225.00 each
2265 Expansion pressure free swell ASTM D3877 185.00 each

Hydraulic Conductivity:

Flexible Wall ASTM D5084 (2 - 3")
2250 Sandy soil \$395.00 each
2251 Clayey soil 465.00 each

Soil Strength Tests:

California Bearing Ratio ASTM D1883
4240 3 points without compaction curve \$825.00 each

Resistance "R" Value ASTM D2844/CTM 301
4232 Untreated material 395.00 each
4234 Cement, lime, or other additives field sample 455.00 each
4233 Cement, lime, or other additives laboratory mixed 475.00 each

Direct Shear Tests, per point (2.5" diameter)
2278 Unconsolidated-Undrained UU 225.00 each
2279 Consolidated-Undrained CU 265.00 each
2280 Consolidated-Drained CD (sandy soil) ASTM D3080 295.00 each
2281 Consolidated-Drained CD (clayey soil) 325.00 each

Triaxial Tests, Per Point (2.5" Diameter)
2270 Unconsolidated-Undrained TX-UU ASTM D2850 195.00 each
2271 TX-UU over 70 psi ASTM D2850 185.00 each
2274 Consolidated-Undrained TX-CU ASTM D4767 285.00 each
2272 TX-CU with pore pressure TX-CU-PP ASTM D4767 495.00 each
2277 Staged 3-point TX-CU-PP with pore pressure 1,450.00 each

2273 Consolidated-Drained TX- CD (sandy soil) USACE 795.00 each
2275 For multi-stage, each additional stress level 345.00 each
2290 Back pressure saturation 165.00 each

Unconfined Compressive Strength

2267 Cohesive soil ASTM D2166 125.00 each
4241 Soil-Cement cyl. (mixed in the lab) ASTM D1633 225.00 each
4242 Soil-Cement cyl. (field mixed) ASTM D1633 200.00 each
4243 CTB (mixed in the lab) ASTM D1633 225.00 each
4244 CTB (field mixed) ASTM D1633 200.00 each

Cement Treated Base (CTB) Mix Design:

2291 Moisture-Density Relations of Soil-Cement Mixture
(each cement content) ASTM D558 \$395.00 each
2292 Particle Size Analysis ASTM C136 365.00 each
2293 Soundness of Aggregates by use of sodium or
magnesium sulfate, fine or coarse, 5 cycles (billed
per fraction, minimum charge \$250.00) ASTM C88 175.00 each
2294 LA Abrasion ASTM C131 100 & 500 revolutions 395.00 each
2295 Wetting & Drying Soil-Cement Mixtures ASTM D559 950.00 each
2296 Freeze & Thaw Soil-Cement Mixtures ASTM D560 1,350.00 each
4243 CTB Comp. Strength (each cement %) ASTM D1633 265.00 each
4250 Cement Treated Base Mix Design Report 650.00 each

Lime Treated Soil Mix Design:

2286 Soil-Lime Proportion ASTM D6276 \$450.00 each
4247 Lime Treated Soil at 1 moisture Content CTM 373 765.00 each

Additional Costs:

2282 Preparation for 3" diameter specimen \$85.00 each
2283 Remold test specimen 110.00 each
2284 For multi-stage, each additional stress level 95.00 each
2285 For each re-shear cycle 105.00 each
2244 Photos 45.00 each
9801 Foreign Soil Sterilization and Disposal 125.00 each
9802 Sample Storage QOR
9803 Shipping of samples, liners or containers Cost +20%
9804 Special handling of contaminated samples QOR
Quote On Request (QOR)

ASPHALTIC CONCRETE

CTM 304/366/305
4101 Stabilometer value of lab mixed sample \$665.00/point
4102 Stabilometer value of premixed sample 595.00 each
4103 Swell test of bituminous mixture 295.00 each

CTM 304/307
4113 Moisture vapor susceptibility including
stabilometer (2 specimens) 295.00 each

CTM 382/D6307
4129 Bitumen content of paving mixture by ignition oven
(subject to environmental disposal surcharge) 365.00 each
4104 Correction Factor 355.00 each

ASTM D5444/CTM 202
4105 Gradation of extracted sample including #200 washes 365.00 each

ASTM D1559

4106	Marshall test, premixed sample 3 specimen	\$350.00 each
4107	Marshall test, lab mixed 3 specimens	450.00 each
4109	Mix Design: Marshall Method - no aggregate	2,600.00 each
4112	Mix Design: Marshall Method - with aggregate	3,200.00 each
4110	Mix Design: Hveem method - no aggregate	2,400.00 each
4111	Mix Design: Hveem method - with aggregate	2,900.00 each
4138	Marshall RAP Mix Design w/ Agg. Tests, AI MS-2	4,000.00 each
4139	Caltrans RAP Mix Design w/ Agg. Tests, CTM 367	3,600.00 each

CTM 308/ASTM D2726

4114	Specific gravity of compacted sample	195.00 each
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CTM 308A/ASTM D1188

4115	Specific gravity of AC - paraffin coated	225.00 each
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CTM 304/375

4128	Test maximum density (TMD), set of 5 specimens	465.00 each
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ASTM D2041

4116	Rice Gravity	265.00 each
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ASTM D1075

4133	Index of retained strength, pre-mix	600.00 each
4134	Index of retained strength, lab mix	880.00 each
4125	Index Retained Stability - pre mix	600.00 each
4126	Index Retained Stability - lab mix	750.00 each

ASTM D4867/AASHTO

4127	Tensile strength ratio, pre-mix	1,200.00 each
4117	Tensile strength ratio, lab mix	1,600.00 each

CTM 303

4119	CKE Coarse	195.00 each
4120	CKE Fine	195.00 each
4132	Filmstripping, CTM 302	245.00 each
4121	ATPB mix (grade, remix @ 2/2.5/3%)	465.00 each
4122	Open graded mix evaluation (grade, recombine, mix @ 3 oil %'s, filmstripping), CTM 368	495.00 each

CTM 370

4123	Moisture content of AC by microwave oven	125.00 each
4135	Calculate Voids Filled with Asphalt, CTM LP-3	85.00 each
4136	Calculate Dust Proportion, CTM LP-4	85.00 each
4137	Calculate Air Voids of HMA, CTM 367	95.00 each

CONCRETE / SHOTCRETE**ASTM C39/C567**

3111	Compression tests, 6" x 12" and 4" x 8" molded cyls.	\$45.00 each
3112	Unit weight on concrete cylinder	125.00 each
3116	Cylinder Molds (Concrete / Grout / Mortar)	10.00 each
3120	Compression Test Samples Cast by Others	90.00 each

ASTM C495

3117	Lightweight insulating concrete (3" diameter x 6" cylinder) Compression tests	65.00 each
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ASTM C469

9314	Static Young's modulus of elasticity in compression of 6" diameter x 12" cylindrical specimen	425.00 each
3119	Splitting tensile test, 6" diameter x 12" cylinder	95.00 each

ASTM C512

9315	Creep of Concrete in compression (by project quote) ..	\$1,700.00/min
9316	Equilibrium Density ASTM C567	195.00 each

ASTM C42/C39

3118	Compression test concrete cores	125.00 each
3510	Shotcrete core compressive strength	125.00 each

ASTM C78/C293

3135	Flexural strength of concrete, 6" x 6" x 24" specimen	195.00 each
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ASTM C157 (MODIFIED)

3115	Volume change of concrete, per set of 3 (drying shrinkage test), up to 28 days drying (excludes trial batch)	665.00 each
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ASTM C109

3113	Compression Tests, 2" cube specimen	65.00 each
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ASTM C192

3136	Laboratory Trial Batch (by project quote)	2,500.00/min
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MASONRY**ASTM C140**

9401	Gross Area Compression	\$165.00 each
9405	Net Area Compression	145.00 each
9402	Absorption and moisture content (*)	225.00 each
9403	Linear shrinkage (rapid method) (*)	510.00 each

ASTM C426

9406	Linear shrinkage (ASTM C426) (*)	525.00 each
9408	Unit Weight (*)	165.00 each
9404	Dimensional measurement/Equivalent web thickness (*) ..	165.00 each

UBC Standard

3711	2" x 4" mortar cylinder	65.00 each
3713	Grout sample	65.00 each
3708	Composite prism	195.00 each

ASTM C1006

9407	Splitting tensile (*)	165.00 each
3717	Compression Test of CMU Core (CBC Title 24)	165.00 each
3718	Shear Test of CMU Core (both face) (CBC Title 24)	155.00 each

ASTM C531

9317	Linear Shrinkage & Coefficient of Thermal Expansion	750.00 each
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BRICK**ASTM C67**

9409	Compression test	\$135.00 each
9411	Absorption test, saturation coefficient	175.00 each
9306	Modulus of rupture	165.00 each

CLAY ROOFING TILE

9418 UBC Standard 32-12 Breaking Load	\$165.00 each
9419 Water Absorption by 24-hour Oven Drying (extra charge for cutting/preparation)	195.00 each

BUILT-UP ROOFING

7026 Basic weight analysis	\$465.00 each
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ASTM D2829

7025 Ply separation and complete roof analysis	625.00 each
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FIREPROOFING

6004 Density of sprayed-on fireproofing	\$175.00 each
6005 Moisture Content of Sprayed-on Fireproofing	125.00 each

STRUCTURAL STEEL AND CARBON STEEL

(Sample preparation and machining not included)

Tensile Testing - yield, ultimate, elongation

9510 To 1" material thickness, inclusive	\$145.00 each
9517 Over 1" up to 1-1/2" thickness	165.00 each
9539 Over 1-1/2" thickness	225.00 each
9519 End-Welded "Nelson" Studs	165.00 each

Cold Bend Testing:

9511 To 3/4" material thickness	125.00 each
9518 Over 3/4" up to 1-1/4" thickness	165.00 each

Flattening Tests on Pipe:

9508 To 10" diameter and 3/4" max. wall	145.00 each
9543 Guided Side, Root or Face Bends and T-Break	125.00 each
9601 Standard Welder Qualification Test	665.00 each
9605 Macroetch Examination	225.00 each

REINFORCING STEEL**Tensile Testing Full Section (yield/ultimate/elongation):**

9501 Bar Size through #8	\$175.00 each
9502 #9 through #11	265.00 each
9503 #14	295.00 each
9504 #18	495.00 each
9552 Coupled rebar through #11	265.00 each
9553 Coupled rebar through #14	295.00 each
9554 Coupled rebar through #18	495.00 each
9509 Cold Bend Testing on Bar Size #11 and smaller	165.00 each
9529 Cold Bend Testing on Bar Size #14	225.00 each

POST-TENSION / PRESTRESS 7-WIRE STRANDS**Seven-wire strands, ASTM A416, for 1/4" through 1/2" strands**

9304 Breaking strength only	\$465.00 each
9305 Yield strength, breaking strength & elongation	595.00 each

MECHANICAL TESTING OF METALLIC PRODUCTS

(sample preparation and machining not included)

9544 Yield strength, tensile, elongation, R/A for 1/2" diameter or sub-size reduced-section specimen	\$255.00 each
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Hardness Testing (3 points/sample)

9513 Rockwell / Brinell	165.00 each
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Charpy Impact Testing (minimum of 3 specimens):

9520 Room Temperature	95.00 each
9521 To minus 100 degrees Fahrenheit	125.00 each
9522 To minus 150 degrees Fahrenheit	165.00 each

HIGH STRENGTH BOLTS, NUTS AND WASHERS

(Sample preparation and machining not included)

ASTM A325, A490 AND A449**Bolts: to 1-1/8" diameter inclusive**

9526 Proof load	\$125.00 each
9514 Ultimate Tensile	85.00 each
9515 Hardness (Rockwell) (*) including sample preparation	115.00 each

Nuts: to 1-1/8" inclusive

9535 Proof load	120.00 each
9536 Hardness (Rockwell) (*) including sample preparation	115.00 each

Washers: all sizes

9536 Hardness (Rockwell) (*) including sample preparation	115.00 each
9516 Carburization Depth	95.00 each

ASTM F959

9537 Load Indicator Washers (LIW), proof load	95.00 each
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SPECIALTY TESTING**ASTM A90**

9700 Weight of galvanized coating (subject to environmental disposal fee)	\$195.00 each
9701 Other materials-aluminum, brass, bronze, fiberglass, etc. ..	95.00 each

MISCELLANEOUS

9903 Calibration of hydraulic ram system (single ram, one pressure gauge to 30 tons)	350.00 each
9904 Calibration of hydraulic ram system (single ram, one Pressure gauge to 100 tons)	450.00 each
9805 Fiber Reinforced Polymer Tensile / Elongation	1,500.00 each

GENERAL TERMS AND CONDITIONS

1. **Access.** Client is responsible for providing Signet access to the project or facility site as well as safe access to all inspection/testing locations (via suitable ladders, etc.).
2. **Scheduling and Cancellation.** All inspection services must be scheduled at least 24 hours in advance. For inspections within a 75-mile radius of the applicable Signet office or facility, there is no charge for cancellation if made at least 24 hours in advance.
3. **Coordinated Inspections.** If Signet or its agents will be performing in-shop inspections of fabrication or assembly, Signet may perform coordinated inspections and bill accordingly. Where continuous inspections are mandated, a continuous presence in the assembly/fabrication facility is required.
4. **Final Affidavit.** The final inspection report (affidavit) will be issued on the 10th working day following the request for the affidavit by the client's project representative. However, any outstanding issues of inspection, testing, and accounting (payments) must be resolved to Signet's satisfaction prior to release of the affidavit. Outstanding issues may include, but are not limited to, approved resolution of Non-Conformance Reports and Requests for Information, 28-day concrete test results, and payment in full for services.
5. **Anticipated Costs.** Client recognizes and agrees that any "anticipated costs", "budget estimates", or the like that may be prepared by Signet are NOT "guaranteed maximums", "lump sums", or "not-to-exceed" totals. Client will compensate Signet for all services performed.
6. **Terms of Payment.** (a) Invoice(s) shall be submitted bi-weekly, payments are due within thirty (30) days from date of invoice without retention. Overdue payments are subject to a late payment charge of 1.5% of the invoice amount plus interest at 1.5% per month until all overdue amounts, late charges and interest are fully paid. No dispute shall excuse Client from timely payment of all invoice amounts except amounts specifically disputed by Client in good faith. (b) Signet reserves the right to suspend the services without notice if all invoices are not paid when due, and to terminate the services if all invoices are not fully paid within five (5) days after written notice to Client of Signet's intent to so terminate. Upon any such termination of services, the entire amount accrued for all services performed shall immediately become due and payable. Client waives any and all claims against Signet, its subsidiaries, affiliates, servants and agents, for suspension or termination of services pursuant to this paragraph. (c) Should Signet refer a past due account to an attorney or collection agency or to file suit for collection, Client agrees to pay all actual expenses and costs incurred thereby, including actual attorney's fees and costs.
7. **Warranty.** Signet warrants that its services will be in accordance with that degree of care and skill ordinarily exercised under similar circumstances by members of its profession in the vicinity as of the date the services are performed. Customer's sole remedy for breach of this warranty shall be for Signet to re-perform its services of non-conforming items, provided Client provides written notice to Signet within one (1) year after performance of the non-conforming services. This warranty and remedy is exclusive and is in lieu of any other warranty or representation, express or implied.
8. **Working Conditions and Escalation.** Signet is subject and/or signatory to one or more agreements with the International Union of Operating Engineers, AFL-CIO covering inspection and testing personnel (the "Labor Agreement"). Working conditions and hours will be enforced in accordance with the applicable Labor Agreement. Compensation for Signet services is subject to adjustment on July 1st of each year to cover any increase in Signet's cost due to changes in wages, benefits, working conditions and other provisions of the Labor Agreement or a successor labor agreement, plus corresponding changes in our general administrative and overhead expense. Signet will notify Client of these adjustments which shall become the agreed upon basis for the continuation of services by Signet.
9. **Insurance.** Signet carries all insurance required by law. Additional cost of insurance certificates, co-insurance endorsements, or additional insurance will be reimbursed by Client.
10. **Limitation of Liability.** To the fullest extent permitted by law, in no event, whether due to or based on delay, contract, tort, negligence, strict liability, warranty, indemnity, error, omission or any other legal theory, shall Signet or its sub-consultants or their directors, officers, employees and agents be liable under or in connection with this Agreement or the performance or non-performance of the services (a) for any special, indirect, consequential, incidental or punitive damages, or for loss of use, loss of revenue or profit (actual or anticipated), increased cost of construction, claims of customers of Client, or any liquidated damages incurred by Client, or (b) in an aggregate amount in excess of the greater of \$10,000 or 25% of the total amount actually paid to Signet pursuant to this Agreement.
11. **Governing Law and Venue.** All contract issues and matters of law will be adjudicated in accordance with the laws of the State of California (excluding any provisions or principles thereof which would require the application of the laws of a different jurisdiction). Venue for any litigation shall be any state court or United States District Court situated in the State of California and having jurisdiction over the parties and subject matter.
12. **Force Majeure.** Any delay or failure of Signet in the performance of its obligations under this Agreement shall be excused to the extent caused by event(s) that are beyond Signet's reasonable control.
13. **Miscellaneous.** This Agreement supersedes any and all prior written and/or oral understandings, contracts and agreements that may have been made or entered into between the parties regarding the subject matter hereof. Any terms or conditions of Client's purchase order, approval or acceptance which are not identical to the terms and conditions of this Agreement are null and void, are not part of the agreement between Signet and Client, and are not binding upon Signet. This Agreement may be modified only by a written amendment signed by both parties. In the event that any one or more of the provisions of this Agreement are found to be illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force and effect, and such term or provision shall be deemed stricken to the extent and in the jurisdictions necessary for compliance with applicable law. Any provisions of this Agreement providing for limitation of or protection against liabilities between the parties hereto shall survive termination of the Agreement and/or completion of the services. Any delay, waiver or omission by either party to exercise any right or power arising from any breach or default by the other party of this Agreement shall not be construed to be a waiver of any subsequent breach or default.