

First

Amendment to Master Consultant Agreement – RWF Capital Projects

Second

Consultants Name: Signet Testing Laboratories, Inc.

Third

(CPMS Contract No. 8753-2)
(Master Agreement AC No. 29369)

This Amendment to the Master Agreement is made and entered into this ___ day of _____. The City and the Consultant amend the above-referenced agreement as set forth herein.

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1. Capitalized words in this Amendment have the same meaning as in the Master Agreement.
 2. The provisions of this Master Agreement (including any previous amendments) not modified by this Amendment remain in full force and effect.
 3. The provisions of this Amendment are effective upon execution of the Amendment by both parties.

4. **Agreement Term:** Section 2 is amended to extend the expiration date from ___ **12/31/2023** ___ to ___ **12/31/2026** ___.

5. **Maximum Total Compensation:** Subsection 10.1 is amended to Increase Decrease the Maximum Total Compensation from \$ _____ to \$ _____.

6. **Agreement Section(s):** Section(s) 2 is/are amended to read as set forth in Attachment A of the Amendment. December 31, 2023

7. **Basis of Compensation – Exhibit B:** The original First Revised Second Revised Exhibit B is amended to read as set forth in the attached First Second Third Revised Exhibit B, which is incorporated by reference into this Amendment.

This Amendment is executed by the authorized representatives of the City and Consultant as follows:

City of San José

Consultant

By

By

Name: **Toni J. Taber**
Title: City Clerk

Name: Robert V. Tadlock
Title: President/CEO

Approval as to Form (City Attorney):

Form Approved by the Office of the City Attorney.

(Maximum Total Compensation, as amended, is \$100,000 or less, and the provisions of the form are not altered.)

By

Approved as to Form:

By:

Name: Dave Palermo
Title: CFO

Name: Rosalía Burgueño Tapia
Title: Sr. Deputy City Attorney

First

Second

Third

Attachment A

Agreement Provision Amendment(s)

This Attachment A is an attachment to the First Second Third amendment to Master Agreement.

The Section(s) set forth in the original Master Agreement, or in any previous amendment to the original Master Agreement, is/are amended as follows:

2. Agreement Term

The term of this master agreement is from the contract date to December 31, 2026, inclusive, unless terminated earlier pursuant to Section 19 below.

First

Second

Revised Exhibit B: Basis of Compensation

Third

This revised Exhibit B is an attachment to the First Second Third amendment to Master Agreement.

The basis of compensation set forth in the original Exhibit B, or in any previous amendment to the original Exhibit B, is amended as follows effective January 1, 2024: **Hourly rates for field inspections increased. Rate increases are aligned with prevailing wage increases for 2024, 2025, and 2026. See updated fee schedule on following pages.**

2024 SCHEDULE OF FEES AND SERVICES

PROFESSIONAL SERVICES

1000	Expert Witness.....	\$406.85/hour
1005	Principal Engineer.....	231.75/hour
1010	Geotechnical Engineer.....	221.45/hour
1015	Project Engineer / Executive / ASNT Level III.....	200.85/hour
1020	Staff Engineer.....	173.04/hour
1025	Project Manager.....	190.55/hour
1030	Quality Control Manager.....	190.55/hour
1032	Lead / Multi-Certified Inspector /Group 1 Work.....	159.65/hour
1035	Laboratory Technician.....	149.35/hour
1040	Technical Assistant, Administrative, Draftsman	108.15/hour

5101	Field Welding Inspection.....	\$128.75/hour
5103	High Strength Bolting Inspection.....	128.75/hour
5104	Field UT Testing.....	128.75/hour
5105	Field MT Testing.....	128.75/hour
5106	Field PT Testing.....	128.75/hour
5201	Shop Welding Inspection.....	128.75/hour
5202	Shop MT Testing.....	128.75/hour
5203	Shop PT Testing.....	128.75/hour
5204	Shop UT Testing.....	128.75/hour
5205	Shop Material ID.....	128.75/hour

INSPECTION AND TESTING SERVICES

Soils / Asphalt Concrete:

2001	Soil Compaction Testing & Observation.....	\$123.60/hour
2104	Soils Observation & Sampling w/o compaction.....	123.60/hour
2102	AC Compaction Testing & Observation.....	123.60/hour
2111	AC Placement Obs. & Sampling w/o compaction.....	123.60/hour
2105	AC Batch Plant Inspection / Sampling.....	123.60/hour
2110	Material Sampling / Transportation.....	123.60/hour
2205	Pile / Pier Installation Observation.....	139.05/hour

Portland Cement Concrete / Shotcrete / Gunite:

3103	Concrete Placement Inspection.....	\$123.60/hour
3104	Concrete Sampling Only.....	123.60/hour
3105	PCC Batch Plant Inspection.....	123.60/hour
3110	NS Grout Inspection / Sampling.....	123.60/hour
3123	Prestressed Concrete Pile Plant Inspection.....	123.60/hour
3503	Shotcrete / Gunite Placement Inspection.....	123.60/hour
3501	DSA Shotcrete / Gunite Placement Inspection.....	128.75/hour

Reinforcing Steel / PT Strand:

3102	Rebar Placement Inspection.....	\$123.60/hour
3609	Rebar / PT Strand ID Sampling / Tagging.....	123.60/hour
3208	PT Strand Stressing Inspection.....	123.60/hour

Masonry:

3701	DSA Continuous Masonry Inspection.....	\$128.75/hour
3703	Continuous Masonry Inspection.....	123.60/hour
3706	Masonry Brick / Veneer Inspection.....	123.60/hour
3710	Periodic Masonry Inspection.....	123.60/hour
3715	Masonry Sampling / Tagging.....	123.60/hour

Structural Steel:

FIELD TESTING EQUIPMENT RATES

1610	Anchor Load / Epoxy Tester / Torque Wrench... \$15.00/hour
1611	Nuclear Gauge or Sand Cone..... 15.00/hour
1612	Skidmore Wilhelm H. S. Bolt Calibrator..... 20.00/hour
1613	UT / MT / PT Gauge..... 15.00/hour
1614	Floor Flatness..... 55.00/hour
1615	Paint Coating Gauge / Moisture Meter..... 15.00/hour

Spray-Applied Fire Resistive Materials (SFRM) Fireproofing:

6002	SFRM Application of SFRM.....	\$123.60/hour
6002	SFRM Field Measure Thickness.....	123.60/hour
6002	SFRM Sampling.....	123.60/hour
6003	SFRM Bond Strength Testing.....	123.60/hour

Roof / Wood / Waterproofing Division:

7003	Built-up Roofing Placement Inspection.....	\$149.35/hour
7004	Diaphragm Nailing Inspection.....	123.60/hour
7005	Shear Wall Nailing Inspection.....	123.60/hour
7060	Waterproofing Inspection.....	149.35/hour
7005	Glue Laminated Beam Inspection.....	236.90/hour

Specialty Testing Division:

9001	Anchor Load / Torque Testing.....	\$123.60/hour
9006	Witness Dowel / Anchor Installation.....	123.60/hour
9008	Pachometer.....	180.25/hour
9007	Schmidt Hammer Testing.....	180.25/hour
9011	Ground Penetrating Radar Survey (GPR).....	211.15/hour
8161	Floor Flatness Survey (Dipstick).....	200.85/hour
8220	Moisture Vapor Emission Testing.....	159.65/hour
7062	Moisture Content Testing.....	159.65/hour
9703	Coatings Inspection.....	231.75/hour
3108	Coring Technician, One Man.....	231.75/hour
9705	Specialty Technician (FRP, Profometer, etc).....	200.80/hour

Sample Pick-Up and Equipment Transport:

0209	Pick-Up / Delivery.....	\$95.00/hour
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Transportation of samples when scheduled outside of normal business hours will incur premium rates and 4/hour increments.

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. These rates are contingent upon the sunseting of our RWF (CPMS Contract No.: 8753-2) requirement to maintain \$5 Million professional liability insurance to be replaced with a \$2 Million requirement.

1617	Ground Penetrating Radar.....	\$55.00/hour
1618	Pachometer / Profometer / Schmidt Hammer.....	15.00/hour
1619	Coring Equipment (Drill, bits, generator, etc.).....	55.00/hour
1620	Core Barrel Usage (per inch drilled).....	20.00/inch
1621	Fireproofing Cohesion / Vapor Emission / RH....	95.00/each
1622	FRP Test Pucks.....	55.00/each
1160	Concrete/Grout Testing (Air, Slump, Scale, etc.)	15.00/hour
0221	Project Laptop Computer / Smart Tablet.....	15.00/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:

<u>Minimums & Increments:</u>	<u>Hours</u>
Show-Up Cancellation Time*	2
Sample Pick-Up & Equipment Transport	2
Work Performed 0-4 hours	4
Work Performed 4-8 hours	8
Work + 8 hours	1
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	3 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. Additional travel related expenses to conform to MCA 10.5.3.

Reimbursable Expenses:

0217	Trip Charge (25/mile radius of Signet office)	per MCA 10.5.3
0218	Trip Charge (25-50/mile radius of Signet office)	per MCA 10.5.3
0218	Trip Charge (50/mile + of Signet office)	per MCA 10.5.3
0208	Mileage	per MCA 10.5.3
1311	Travel Time	Service Rate
0206	Specialty Vehicle Charge (when required)	per MCA 10.5.3
0205	Per Diem	per MCA 10.5.3
0207	Equip. Rental / Cure Box / Notary / Expenses	per MCA 10.5.3
0105	Outside / Subcontracted Services	Cost + 5% / per MCA 10.6
0204	Parking / Tolls	per MCA 10.5.3

Final Reports (Special Inspection Projects Only):

0216	Engineer's Final Report Letter	\$350.00 Each
0215	DSA/OSHPD Verified Report	500.00 Each

Project Coordination, Engineering, and Management:

1. A minimum of one-half hour per \$5,000 (with a cap of 3-hours/week) 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 one-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, on-line access to all reports, and EADOC generated daily/weekly/lab report documentation7%

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.

Our Fee Schedule and project specific rates are valid through December 31, 2024.

Per MCA 10.2.3, In case of a discrepancy between Schedule of Rates and Charges and MCA, the MCA governs.

LABORATORY TESTING

SOILS AND AGGREGATES

Aggregate Property Tests:

Acid Solubility	
4260	\$195.00 each
Aggregate Angularity AASHTO T304	
4245 Fine Aggregate	255.00 each
Clay lumps and Friable Particles ASTM C142	
4211	185.00 each
Cleanness 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	245.00 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	\$465.00 each
2238 6" mold	495.00 each
2242 Checkpoint for identification of material	295.00 each
Modified Proctor ASTM D1557 / AASHTO T180	
2239 4" mold	465.00 each
2240 6" mold	495.00 each
2242 Checkpoint for identification of material	295.00 each
Rock Correction of Moisture/Density Curve ASTM D4718	
4208	185.00 each
California Impact CTM 216	
2243	385.00 each

Classification and Index Tests:

Atterberg Limits (Plasticity Index) ASTM D4318	
2225 Dry Prep Method B	\$385.00 each
2226 Wet Prep Method A	395.00 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	165.00 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)	325.00 each
4204 Coarse aggregate (#4 to 3")	395.00 each
4205 Total sieve coarse and fine (to 1-1/2" maximum)	495.00 each
4206 Fine aggregate (#4 to #195 w/wash)	295.00 each
4226 Sieve analysis pit run with #195 wash	465.00 each
4202 #195 Wash on Aggregate ASTM C117	295.00 each
2227 #195 Wash on Soil ASTM D1135	295.00 each
Particle Size Analysis ASTM D422	
2228 Sieve (from 1/2" to #195)	295.00 each
2229 Sieve (from 1-1/2" to #195)	395.00 each
2230 Sieve (from 3" to #195)	375.00 each
2231 Hydrometer test w/ sieve D422/ CTM 203	485.00 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

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	195.00 each
4243 CTB (mixed in the lab) ASTM D1633	225.00 each
4244 CTB (field mixed) ASTM D1633	195.00 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	195.00 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

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	per MCA
9804 Special handling of contaminated samples	QOR
Quote On Request (QOR)	

ASPHALTIC CONCRETE

CTM 304/366/305	
4101 Stabilometer value of lab mixed sample	\$765.00/point
4102 Stabilometer value of premixed sample	695.00 each
4103 Swell test of bituminous mixture	395.00 each
CTM 304/307	
4113 Moisture vapor susceptibility including stabilometer (2 specimens)	395.00 each
CTM 382/D6307	
4129 Bitumen content of paving mixture by ignition oven (subject to environmental disposal surcharge)	465.00 each
4104 Correction Factor	455.00 each

ASTM D5444/CTM 202
 4105 Gradation of extracted sample including #195 washes.... 465.00 each

ASTM D1559
 4106 Marshall test, premixed sample 3 specimen \$450.00 each
 4107 Marshall test, lab mixed 3 specimens 550.00 each
 4109 Mix Design: Marshall Method - no aggregate 2,600.00 each
 4112 Mix Design: Marshall Method - with aggregate 3,195.00 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 295.00 each

CTM 308AASTM /D1188
 4115 Specific gravity of AC - paraffin coated 325.00 each

CTM 304/375
 4128 Test maximum density (TMD), set of 5 specimens 565.00 each

ASTM D2041
 4116 Rice Gravity 365.00 each

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 1,195.00 each
 4117 Tensile strength ratio, lab mix 1,600.00 each

CTM 303
 4119 CKE Coarse 195.00 each
 4131 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. \$65.00 each
 3112 Unit weight on concrete cylinder 125.00 each
 3116 Cylinder Molds (Concrete / Grout / Mortar) 25.00 each
 3131 Compression Test Samples Cast by Others 145.00 each

ASTM C495
 3117 Lightweight insulating concrete (3" diameter x 6" cylinder) Compression tests 95.00 each

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 165.00 each
 3510 Shotcrete core compressive strength 195.00 each

ASTM C78/C293
 3135 Flexural strength of concrete, 6" x 6" x 24" specimen 395.00 each

ASTM C157 (MODIFIED)
 3115 Volume change of concrete, per set of 3 (drying shrinkage test), up to 28 days drying (excludes trial batch) 965.00 each

ASTM C109
 3113 Compression Tests, 2" cube specimen 125.00 each

ASTM C192
 3136 Laboratory Trial Batch (by project quote) 1,500.00/min

MASONRY

ASTM C135
 9401 Gross Area Compression \$325.00 each
 9405 Net Area Compression 315.00 each
 9402 Absorption and moisture content (*) 295.00 each
 9403 Linear shrinkage (rapid method) (*) 510.00 each

ASTM C426
 9406 Linear shrinkage (ASTM C426) (*) 525.00 each
 9408 Unit Weight (*) 245.00 each
 9404 Dimensional measurement/Equivalent web thickness (*) 225.00 each

UBC Standard
 3711 2" x 4" mortar cylinder 85.00 each
 3713 Grout sample 85.00 each
 3708 Composite prism 295.00 each

ASTM C1006
 9407 Splitting tensile (*) 125.00 each
 3717 Compression Test of CMU Core (CBC Title 24) 95.00 each
 3718 Shear Test of CMU Core (both face) (CBC Title 24) 125.00 each

ASTM C531
 9317 Linear Shrinkage & Coefficient of Thermal Expansion 600.00 each

BRICK

ASTM C67
 9409 Compression test \$95.00 each
 9411 Absorption test, saturation coefficient 115.00 each
 9306 Modulus of rupture 95.00 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)..... 155.00 each

BUILT-UP ROOFING

- 7026 Basic weight analysis \$365.00 each

ASTM D2829

- 7025 Ply separation and complete roof analysis 625.00 each

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 \$245.00 each
- 9517 Over 1" up to 1-1/2" thickness..... 265.00 each
- 9539 Over 1-1/2" thickness 325.00 each
- 9519 End-Welded "Nelson" Studs 265.00 each

Cold Bend Testing:

- 9511 To 3/4" material thickness 225.00 each
- 9518 Over 3/4" up to 1-1/4" thickness..... 265.00 each

Flattening Tests on Pipe:

- 9508 To 10" diameter and 3/4" max. wall 245.00 each

- 9543 Guided Side, Root or Face Bends and T-Break..... 195.00 each
- 9601 Standard Welder Qualification Test 665.00 each
- 9605 Macroetch Examination 325.00 each

REINFORCING STEEL

Tensile Testing Full Section (yield/ultimate/elongation):

- 9501 Bar Size through #8..... \$255.00 each
- 9502 #9 through #11 325.00 each
- 9503 #14 375.00 each
- 9504 #18 395.00 each
- 9552 Coupled rebar through #11 325.00 each
- 9553 Coupled rebar through #14 395.00 each
- 9554 Coupled rebar through #18 425.00 each
- 9509 Cold Bend Testing on Bar Size #11 and smaller..... 255.00 each
- 9529 Cold Bend Testing on Bar Size #14..... 265.00 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..... 495.00 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..... \$325.00 each

Hardness Testing (3 points/sample)

- 9513 Rockwell / Brinell 225.00 each

Charpy Impact Testing (minimum of 3 specimens):

- 9520 Room Temperature 165.00 each
- 9521 To minus 100 degrees Fahrenheit..... 195.00 each
- 9522 To minus 150 degrees Fahrenheit..... 225.00 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 \$195.00 each
- 9514 Ultimate Tensile..... 170.00 each
- 9515 Hardness (Rockwell) (*) including sample preparation 205.00 each

Nuts: to 1-1/8" inclusive

- 9535 Proof load 195.00 each
- 9536 Hardness (Rockwell) (*) including sample preparation 205.00 each

Washers: all sizes

- 9536 Hardness (Rockwell) (*) including sample preparation 205.00 each
- 9516 Carburization Depth 180.00 each

ASTM F959

- 9537 Load Indicator Washers (LIW), proof load 185.00 each

SPECIALTY TESTING

ASTM A90

- 9700 Weight of galvanized coating (subject to environmental disposal fee) \$265.00 each
- 9701 Other materials-aluminum, brass, bronze, fiberglass, etc 165.00 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 850.00 each

2025 SCHEDULE OF FEES AND SERVICES

PROFESSIONAL SERVICES

1000	Expert Witness.....	\$419.06/hour
1005	Principal Engineer.....	238.70/hour
1010	Geotechnical Engineer.....	228.09/hour
1015	Project Engineer / Executive / ASNT Level III.....	206.88/hour
1020	Staff Engineer.....	178.23/hour
1025	Project Manager.....	196.27/hour
1030	Quality Control Manager.....	196.27/hour
1032	Lead / Multi-Certified Inspector /Group 1 Work.....	164.44/hour
1035	Laboratory Technician.....	153.83/hour
1040	Technical Assistant, Administrative, Draftsman	111.39/hour

5101	Field Welding Inspection.....	\$132.61/hour
5103	High Strength Bolting Inspection.....	132.61/hour
5104	Field UT Testing.....	132.61/hour
5105	Field MT Testing.....	132.61/hour
5106	Field PT Testing.....	132.61/hour
5201	Shop Welding Inspection.....	132.61/hour
5202	Shop MT Testing.....	132.61/hour
5203	Shop PT Testing.....	132.61/hour
5204	Shop UT Testing.....	132.61/hour
5205	Shop Material ID.....	132.61/hour

INSPECTION AND TESTING SERVICES

Soils / Asphalt Concrete:

2001	Soil Compaction Testing & Observation.....	\$127.31/hour
2104	Soils Observation & Sampling w/o compaction.....	127.31/hour
2102	AC Compaction Testing & Observation.....	127.31/hour
2111	AC Placement Obs. & Sampling w/o compaction.....	127.31/hour
2105	AC Batch Plant Inspection / Sampling.....	127.31/hour
2110	Material Sampling / Transportation.....	127.31/hour
2205	Pile / Pier Installation Observation.....	143.22/hour

Portland Cement Concrete / Shotcrete / Gunite:

3103	Concrete Placement Inspection.....	\$127.31/hour
3104	Concrete Sampling Only.....	127.31/hour
3105	PCC Batch Plant Inspection.....	127.31/hour
3110	NS Grout Inspection / Sampling.....	127.31/hour
3123	Prestressed Concrete Pile Plant Inspection.....	127.31/hour
3503	Shotcrete / Gunite Placement Inspection.....	127.31/hour
3501	DSA Shotcrete / Gunite Placement Inspection.....	132.61/hour

Reinforcing Steel / PT Strand:

3102	Rebar Placement Inspection.....	\$127.31/hour
3609	Rebar / PT Strand ID Sampling / Tagging.....	127.31/hour
3208	PT Strand Stressing Inspection.....	127.31/hour

Masonry:

3701	DSA Continuous Masonry Inspection.....	\$132.61/hour
3703	Continuous Masonry Inspection.....	127.31/hour
3706	Masonry Brick / Veneer Inspection.....	127.31/hour
3710	Periodic Masonry Inspection.....	127.31/hour
3715	Masonry Sampling / Tagging.....	127.31/hour

Structural Steel:

FIELD TESTING EQUIPMENT RATES

1610	Anchor Load / Epoxy Tester / Torque Wrench....	\$15.00/hour
1611	Nuclear Gauge or Sand Cone.....	15.00/hour
1612	Skidmore Wilhelm H. S. Bolt Calibrator.....	20.00/hour
1613	UT / MT / PT Gauge.....	15.00/hour
1614	Floor Flatness.....	55.00/hour
1615	Paint Coating Gauge / Moisture Meter.....	15.00/hour

Spray-Applied Fire Resistive Materials (SFRM) Fireproofing:

6002	SFRM Application of SFRM.....	\$127.31/hour
6002	SFRM Field Measure Thickness.....	127.31/hour
6002	SFRM Sampling.....	127.31/hour
6003	SFRM Bond Strength Testing.....	127.31/hour

Roof / Wood / Waterproofing Division:

7003	Built-up Roofing Placement Inspection.....	\$153.83/hour
7004	Diaphragm Nailing Inspection.....	127.31/hour
7005	Shear Wall Nailing Inspection.....	127.31/hour
7060	Waterproofing Inspection.....	153.83/hour
7005	Glue Laminated Beam Inspection.....	244.01/hour

Specialty Testing Division:

9001	Anchor Load / Torque Testing.....	\$127.31/hour
9006	Witness Dowel / Anchor Installation.....	127.31/hour
9008	Pachometer.....	185.66/hour
9007	Schmidt Hammer Testing.....	185.66/hour
9011	Ground Penetrating Radar Survey (GPR).....	217.48/hour
8161	Floor Flatness Survey (Dipstick).....	206.88/hour
8220	Moisture Vapor Emission Testing.....	164.44/hour
7062	Moisture Content Testing.....	164.44/hour
9703	Coatings Inspection.....	238.70/hour
3108	Coring Technician, One Man.....	238.70/hour
9705	Specialty Technician (FRP, Profometer, etc).....	206.88/hour

Sample Pick-Up and Equipment Transport:

0209	Pick-Up / Delivery.....	\$95.00/hour
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Transportation of samples when scheduled outside of normal business hours will incur premium rates and 4/hour increments.

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. These rates are contingent upon the sunseting of our RWF (CPMS Contract No.: 8753-2) requirement to maintain \$5 Million professional liability insurance to be replaced with a \$2 Million requirement.

1617	Ground Penetrating Radar.....	\$55.00/hour
1618	Pachometer / Profometer / Schmidt Hammer.....	15.00/hour
1619	Coring Equipment (Drill, bits, generator, etc.).....	55.00/hour
1620	Core Barrel Usage (per inch drilled).....	20.00/inch
1621	Fireproofing Cohesion / Vapor Emission / RH....	95.00/each
1622	FRP Test Pucks.....	55.00/each
1160	Concrete/Grout Testing (Air, Slump, Scale, etc.)	15.00/hour
0221	Project Laptop Computer / Smart Tablet.....	15.00/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:

<u>Minimums & Increments:</u>	<u>Hours</u>
Show-Up Cancellation Time*	2
Sample Pick-Up & Equipment Transport	2
Work Performed 0-4 hours	4
Work Performed 4-8 hours	8
Work + 8 hours	1
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	3 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. Additional travel related expenses to conform to MCA 10.5.3.

Reimbursable Expenses:

0217	Trip Charge (25/mile radius of Signet office)	per MCA 10.5.3
0218	Trip Charge (25-50/mile radius of Signet office)	per MCA 10.5.3
0218	Trip Charge (50/mile + of Signet office)	per MCA 10.5.3
0208	Mileage	per MCA 10.5.3
1311	Travel Time	Service Rate
0206	Specialty Vehicle Charge (when required)	per MCA 10.5.3
0205	Per Diem	per MCA 10.5.3
0207	Equip. Rental / Cure Box / Notary / Expenses	per MCA 10.5.3
0105	Outside / Subcontracted Services	Cost + 5% / per MCA 10.6
0204	Parking / Tolls	per MCA 10.5.3

Final Reports (Special Inspection Projects Only):

0216	Engineer's Final Report Letter	\$350.00 Each
0215	DSA/OSHPD Verified Report	500.00 Each

Project Coordination, Engineering, and Management:

1. A minimum of one-half hour per \$5,000 (with a cap of 3-hours/week) 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 one-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, on-line access to all reports, and EADOC generated daily/weekly/lab report documentation7%

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.

Our Fee Schedule and project specific rates are valid through December 31, 2025.

Per MCA 10.2.3, In case of a discrepancy between Schedule of Rates and Charges and MCA, the MCA governs.

LABORATORY TESTING

SOILS AND AGGREGATES

Aggregate Property Tests:

Acid Solubility	
4260	\$195.00 each
Aggregate Angularity AASHTO T304	
4245 Fine Aggregate	255.00 each
Clay lumps and Friable Particles ASTM C142	
4211	185.00 each
Cleanness 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	245.00 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
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Compaction Characteristics - Moisture / Density Relationships:

Standard Proctor ASTM D698 / AASHTO T99

2237 4" mold	\$465.00 each
2238 6" mold	495.00 each
2242 Checkpoint for identification of material	295.00 each

Modified Proctor ASTM D1557 / AASHTO T180

2239 4" mold	465.00 each
2240 6" mold	495.00 each
2242 Checkpoint for identification of material	295.00 each

Rock Correction of Moisture/Density Curve ASTM D4718

4208	185.00 each
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California Impact CTM 216

2243	385.00 each
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Classification and Index Tests:

Atterberg Limits (Plasticity Index) ASTM D4318

2225 Dry Prep Method B	\$385.00 each
2226 Wet Prep Method A	395.00 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	165.00 each
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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
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Particle Size Analysis ASTM C136/CTM 202

4203 Coarse aggregate (#4 to 1-1/2" maximum)	325.00 each
4204 Coarse aggregate (#4 to 3")	395.00 each
4205 Total sieve coarse and fine (to 1-1/2" maximum)	495.00 each
4206 Fine aggregate (#4 to #195 w/wash)	295.00 each
4226 Sieve analysis pit run with #195 wash	465.00 each
4202 #195 Wash on Aggregate ASTM C117	295.00 each
2227 #195 Wash on Soil ASTM D1135	295.00 each

Particle Size Analysis ASTM D422

2228 Sieve (from 1/2" to #195)	295.00 each
2229 Sieve (from 1-1/2" to #195)	395.00 each
2230 Sieve (from 3" to #195)	375.00 each
2231 Hydrometer test w/ sieve D422/ CTM 203	485.00 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

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	195.00 each
4243 CTB (mixed in the lab) ASTM D1633	225.00 each
4244 CTB (field mixed) ASTM D1633	195.00 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	195.00 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

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	per MCA
9804 Special handling of contaminated samples	QOR
	Quote On Request (QOR)

ASPHALTIC CONCRETE

CTM 304/366/305	
4101 Stabilometer value of lab mixed sample	\$765.00/point
4102 Stabilometer value of premixed sample	695.00 each
4103 Swell test of bituminous mixture	395.00 each
CTM 304/307	
4113 Moisture vapor susceptibility including stabilometer (2 specimens)	395.00 each
CTM 382/D6307	
4129 Bitumen content of paving mixture by ignition oven (subject to environmental disposal surcharge)	465.00 each
4104 Correction Factor	455.00 each

ASTM D5444/CTM 202
4105 Gradation of extracted sample including #195 washes.... 465.00 each

ASTM D1559
4106 Marshall test, premixed sample 3 specimen \$450.00 each
4107 Marshall test, lab mixed 3 specimens 550.00 each
4109 Mix Design: Marshall Method - no aggregate 2,600.00 each
4112 Mix Design: Marshall Method - with aggregate 3,195.00 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 295.00 each

CTM 308AASTM /D1188
4115 Specific gravity of AC - paraffin coated 325.00 each

CTM 304/375
4128 Test maximum density (TMD), set of 5 specimens 565.00 each

ASTM D2041
4116 Rice Gravity 365.00 each

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 1,195.00 each
4117 Tensile strength ratio, lab mix 1,600.00 each

CTM 303
4119 CKE Coarse 195.00 each
4131 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. \$65.00 each
3112 Unit weight on concrete cylinder 125.00 each
3116 Cylinder Molds (Concrete / Grout / Mortar) 25.00 each
3131 Compression Test Samples Cast by Others 145.00 each

ASTM C495
3117 Lightweight insulating concrete (3" diameter x 6" cylinder) Compression tests 95.00 each

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 165.00 each
3510 Shotcrete core compressive strength 195.00 each

ASTM C78/C293
3135 Flexural strength of concrete, 6" x 6" x 24" specimen 395.00 each

ASTM C157 (MODIFIED)
3115 Volume change of concrete, per set of 3 (drying shrinkage test), up to 28 days drying (excludes trial batch) 965.00 each

ASTM C109
3113 Compression Tests, 2" cube specimen 125.00 each

ASTM C192
3136 Laboratory Trial Batch (by project quote) 1,500.00/min

MASONRY

ASTM C135
9401 Gross Area Compression \$325.00 each
9405 Net Area Compression 315.00 each
9402 Absorption and moisture content (*) 295.00 each
9403 Linear shrinkage (rapid method) (*) 510.00 each

ASTM C426
9406 Linear shrinkage (ASTM C426) (*) 525.00 each
9408 Unit Weight (*) 245.00 each
9404 Dimensional measurement/Equivalent web thickness (*) 225.00 each

UBC Standard
3711 2" x 4" mortar cylinder 85.00 each
3713 Grout sample 85.00 each
3708 Composite prism 295.00 each

ASTM C1006
9407 Splitting tensile (*) 125.00 each
3717 Compression Test of CMU Core (CBC Title 24) 95.00 each
3718 Shear Test of CMU Core (both face) (CBC Title 24) 125.00 each

ASTM C531
9317 Linear Shrinkage & Coefficient of Thermal Expansion 600.00 each

BRICK

ASTM C67
9409 Compression test \$95.00 each
9411 Absorption test, saturation coefficient 115.00 each
9306 Modulus of rupture 95.00 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)..... 155.00 each

BUILT-UP ROOFING

- 7026 Basic weight analysis \$365.00 each

ASTM D2829

- 7025 Ply separation and complete roof analysis 625.00 each

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..... \$245.00 each
- 9517 Over 1" up to 1-1/2" thickness..... 265.00 each
- 9539 Over 1-1/2" thickness..... 325.00 each
- 9519 End-Welded "Nelson" Studs 265.00 each

Cold Bend Testing:

- 9511 To 3/4" material thickness..... 225.00 each
- 9518 Over 3/4" up to 1-1/4" thickness..... 265.00 each

Flattening Tests on Pipe:

- 9508 To 10" diameter and 3/4" max. wall 245.00 each

- 9543 Guided Side, Root or Face Bends and T-Break..... 195.00 each
- 9601 Standard Welder Qualification Test 665.00 each
- 9605 Macroetch Examination 325.00 each

REINFORCING STEEL

Tensile Testing Full Section (yield/ultimate/elongation):

- 9501 Bar Size through #8..... \$255.00 each
- 9502 #9 through #11 325.00 each
- 9503 #14 375.00 each
- 9504 #18 395.00 each
- 9552 Coupled rebar through #11 325.00 each
- 9553 Coupled rebar through #14 395.00 each
- 9554 Coupled rebar through #18 425.00 each
- 9509 Cold Bend Testing on Bar Size #11 and smaller..... 255.00 each
- 9529 Cold Bend Testing on Bar Size #14..... 265.00 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..... 495.00 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..... \$325.00 each

Hardness Testing (3 points/sample)

- 9513 Rockwell / Brinell 225.00 each

Charpy Impact Testing (minimum of 3 specimens):

- 9520 Room Temperature 165.00 each
- 9521 To minus 100 degrees Fahrenheit..... 195.00 each
- 9522 To minus 150 degrees Fahrenheit..... 225.00 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 \$195.00 each
- 9514 Ultimate Tensile..... 170.00 each
- 9515 Hardness (Rockwell) (*) including sample preparation 205.00 each

Nuts: to 1-1/8" inclusive

- 9535 Proof load 195.00 each
- 9536 Hardness (Rockwell) (*) including sample preparation 205.00 each

Washers: all sizes

- 9536 Hardness (Rockwell) (*) including sample preparation 205.00 each
- 9516 Carburization Depth 180.00 each

ASTM F959

- 9537 Load Indicator Washers (LIW), proof load 185.00 each

SPECIALTY TESTING

ASTM A90

- 9700 Weight of galvanized coating (subject to environmental disposal fee) \$265.00 each
- 9701 Other materials-aluminum, brass, bronze, fiberglass, etc 165.00 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 850.00 each

2026 SCHEDULE OF FEES AND SERVICES

PROFESSIONAL SERVICES

1000	Expert Witness.....	\$431.63/hour
1005	Principal Engineer.....	245.86/hour
1010	Geotechnical Engineer.....	234.94/hour
1015	Project Engineer / Executive / ASNT Level III.....	213.08/hour
1020	Staff Engineer.....	183.58/hour
1025	Project Manager.....	202.15/hour
1030	Quality Control Manager.....	202.15/hour
1032	Lead / Multi-Certified Inspector /Group 1 Work.....	169.37/hour
1035	Laboratory Technician.....	158.45/hour
1040	Technical Assistant, Administrative, Draftsman	114.74/hour

5101	Field Welding Inspection.....	\$136.59/hour
5103	High Strength Bolting Inspection.....	136.59/hour
5104	Field UT Testing.....	136.59/hour
5105	Field MT Testing.....	136.59/hour
5106	Field PT Testing.....	136.59/hour
5201	Shop Welding Inspection.....	136.59/hour
5202	Shop MT Testing.....	136.59/hour
5203	Shop PT Testing.....	136.59/hour
5204	Shop UT Testing.....	136.59/hour
5205	Shop Material ID.....	136.59/hour

INSPECTION AND TESTING SERVICES

Soils / Asphalt Concrete:

2001	Soil Compaction Testing & Observation.....	\$131.13/hour
2104	Soils Observation & Sampling w/o compaction.....	131.13/hour
2102	AC Compaction Testing & Observation.....	131.13/hour
2111	AC Placement Obs. & Sampling w/o compaction.....	131.13/hour
2105	AC Batch Plant Inspection / Sampling.....	131.13/hour
2110	Material Sampling / Transportation.....	131.13/hour
2205	Pile / Pier Installation Observation.....	147.52/hour

Portland Cement Concrete / Shotcrete / Gunite:

3103	Concrete Placement Inspection.....	\$131.13/hour
3104	Concrete Sampling Only.....	131.13/hour
3105	PCC Batch Plant Inspection.....	131.13/hour
3110	NS Grout Inspection / Sampling.....	131.13/hour
3123	Prestressed Concrete Pile Plant Inspection.....	131.13/hour
3503	Shotcrete / Gunite Placement Inspection.....	131.13/hour
3501	DSA Shotcrete / Gunite Placement Inspection.....	136.59/hour

Reinforcing Steel / PT Strand:

3102	Rebar Placement Inspection.....	\$131.13/hour
3609	Rebar / PT Strand ID Sampling / Tagging.....	131.13/hour
3208	PT Strand Stressing Inspection.....	131.13/hour

Masonry:

3701	DSA Continuous Masonry Inspection.....	\$136.59/hour
3703	Continuous Masonry Inspection.....	131.13/hour
3706	Masonry Brick / Veneer Inspection.....	131.13/hour
3710	Periodic Masonry Inspection.....	131.13/hour
3715	Masonry Sampling / Tagging.....	131.13/hour

Structural Steel:

FIELD TESTING EQUIPMENT RATES

1610	Anchor Load / Epoxy Tester / Torque Wrench....	\$15.00/hour
1611	Nuclear Gauge or Sand Cone.....	15.00/hour
1612	Skidmore Wilhelm H. S. Bolt Calibrator.....	20.00/hour
1613	UT / MT / PT Gauge.....	15.00/hour
1614	Floor Flatness.....	55.00/hour
1615	Paint Coating Gauge / Moisture Meter.....	15.00/hour

Spray-Applied Fire Resistive Materials (SFRM) Fireproofing:

6002	SFRM Application of SFRM.....	\$131.13/hour
6002	SFRM Field Measure Thickness.....	131.13/hour
6002	SFRM Sampling.....	131.13/hour
6003	SFRM Bond Strength Testing.....	131.13/hour

Roof / Wood / Waterproofing Division:

7003	Built-up Roofing Placement Inspection.....	\$158.45/hour
7004	Diaphragm Nailing Inspection.....	131.13/hour
7005	Shear Wall Nailing Inspection.....	131.13/hour
7060	Waterproofing Inspection.....	153.45/hour
7005	Glue Laminated Beam Inspection.....	251.33/hour

Specialty Testing Division:

9001	Anchor Load / Torque Testing.....	\$131.13/hour
9006	Witness Dowel / Anchor Installation.....	131.13/hour
9008	Pachometer.....	191.23/hour
9007	Schmidt Hammer Testing.....	191.23/hour
9011	Ground Penetrating Radar Survey (GPR).....	224.01/hour
8161	Floor Flatness Survey (Dipstick).....	213.08/hour
8220	Moisture Vapor Emission Testing.....	169.37/hour
7062	Moisture Content Testing.....	169.37/hour
9703	Coatings Inspection.....	245.86/hour
3108	Coring Technician, One Man.....	245.86/hour
9705	Specialty Technician (FRP, Profometer, etc).....	213.08/hour

Sample Pick-Up and Equipment Transport:

0209	Pick-Up / Delivery.....	\$95.00/hour
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Transportation of samples when scheduled outside of normal business hours will incur premium rates and 4/hour increments.

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. These rates are contingent upon the sunseting of our RWF (CPMS Contract No.: 8753-2) requirement to maintain \$5 Million professional liability insurance to be replaced with a \$2 Million requirement.

1617	Ground Penetrating Radar.....	\$55.00/hour
1618	Pachometer / Profometer / Schmidt Hammer.....	15.00/hour
1619	Coring Equipment (Drill, bits, generator, etc.).....	55.00/hour
1620	Core Barrel Usage (per inch drilled).....	20.00/inch
1621	Fireproofing Cohesion / Vapor Emission / RH....	95.00/each
1622	FRP Test Pucks.....	55.00/each
1160	Concrete/Grout Testing (Air, Slump, Scale, etc.)	15.00/hour
0221	Project Laptop Computer / Smart Tablet.....	15.00/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:

<u>Minimums & Increments:</u>	<u>Hours</u>
Show-Up Cancellation Time*	2
Sample Pick-Up & Equipment Transport	2
Work Performed 0-4 hours	4
Work Performed 4-8 hours	8
Work + 8 hours	1
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	3 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. Additional travel related expenses to conform to MCA 10.5.3.

Reimbursable Expenses:

0217	Trip Charge (25/mile radius of Signet office)	per MCA 10.5.3
0218	Trip Charge (25-50/mile radius of Signet office)	per MCA 10.5.3
0218	Trip Charge (50/mile + of Signet office)	per MCA 10.5.3
0208	Mileage	per MCA 10.5.3
1311	Travel Time	Service Rate
0206	Specialty Vehicle Charge (when required)	per MCA 10.5.3
0205	Per Diem	per MCA 10.5.3
0207	Equip. Rental / Cure Box / Notary / Expenses	per MCA 10.5.3
0105	Outside / Subcontracted Services	Cost + 5% / per MCA 10.6
0204	Parking / Tolls	per MCA 10.5.3

Final Reports (Special Inspection Projects Only):

0216	Engineer's Final Report Letter	\$350.00 Each
0215	DSA/OSHPD Verified Report	500.00 Each

Project Coordination, Engineering, and Management:

1. A minimum of one-half hour per \$5,000 (with a cap of 3-hours/week) 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 one-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, on-line access to all reports, and EADOC generated daily/weekly/lab report documentation7%

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.

Our Fee Schedule and project specific rates are valid through December 31, 2026.

Per MCA 10.2.3, In case of a discrepancy between Schedule of Rates and Charges and MCA, the MCA governs.

LABORATORY TESTING

SOILS AND AGGREGATES

Aggregate Property Tests:

Acid Solubility	
4260	\$195.00 each
Aggregate Angularity AASHTO T304	
4245 Fine Aggregate	255.00 each
Clay lumps and Friable Particles ASTM C142	
4211	185.00 each
Cleanness 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	245.00 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
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Compaction Characteristics - Moisture / Density Relationships:

Standard Proctor ASTM D698 / AASHTO T99

2237 4" mold	\$465.00 each
2238 6" mold	495.00 each
2242 Checkpoint for identification of material	295.00 each

Modified Proctor ASTM D1557 / AASHTO T180

2239 4" mold	465.00 each
2240 6" mold	495.00 each
2242 Checkpoint for identification of material	295.00 each

Rock Correction of Moisture/Density Curve ASTM D4718

4208	185.00 each
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California Impact CTM 216

2243	385.00 each
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Classification and Index Tests:

Atterberg Limits (Plasticity Index) ASTM D4318

2225 Dry Prep Method B	\$385.00 each
2226 Wet Prep Method A	395.00 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	165.00 each
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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
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Particle Size Analysis ASTM C136/CTM 202

4203 Coarse aggregate (#4 to 1-1/2" maximum)	325.00 each
4204 Coarse aggregate (#4 to 3")	395.00 each
4205 Total sieve coarse and fine (to 1-1/2" maximum)	495.00 each
4206 Fine aggregate (#4 to #195 w/wash)	295.00 each
4226 Sieve analysis pit run with #195 wash	465.00 each
4202 #195 Wash on Aggregate ASTM C117	295.00 each
2227 #195 Wash on Soil ASTM D1135	295.00 each

Particle Size Analysis ASTM D422

2228 Sieve (from 1/2" to #195)	295.00 each
2229 Sieve (from 1-1/2" to #195)	395.00 each
2230 Sieve (from 3" to #195)	375.00 each
2231 Hydrometer test w/ sieve D422/ CTM 203	485.00 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

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	195.00 each
4243 CTB (mixed in the lab) ASTM D1633	225.00 each
4244 CTB (field mixed) ASTM D1633	195.00 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	195.00 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

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	per MCA
9804 Special handling of contaminated samples	QOR
	Quote On Request (QOR)

ASPHALTIC CONCRETE

CTM 304/366/305	
4101 Stabilometer value of lab mixed sample	\$765.00/point
4102 Stabilometer value of premixed sample	695.00 each
4103 Swell test of bituminous mixture	395.00 each
CTM 304/307	
4113 Moisture vapor susceptibility including stabilometer (2 specimens)	395.00 each
CTM 382/D6307	
4129 Bitumen content of paving mixture by ignition oven (subject to environmental disposal surcharge)	465.00 each
4104 Correction Factor	455.00 each

ASTM D5444/CTM 202
 4105 Gradation of extracted sample including #195 washes.... 465.00 each

ASTM D1559
 4106 Marshall test, premixed sample 3 specimen \$450.00 each
 4107 Marshall test, lab mixed 3 specimens 550.00 each
 4109 Mix Design: Marshall Method - no aggregate 2,600.00 each
 4112 Mix Design: Marshall Method - with aggregate 3,195.00 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 295.00 each

CTM 308AASTM /D1188
 4115 Specific gravity of AC - paraffin coated 325.00 each

CTM 304/375
 4128 Test maximum density (TMD), set of 5 specimens 565.00 each

ASTM D2041
 4116 Rice Gravity 365.00 each

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 1,195.00 each
 4117 Tensile strength ratio, lab mix 1,600.00 each

CTM 303
 4119 CKE Coarse 195.00 each
 4131 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. \$65.00 each
 3112 Unit weight on concrete cylinder 125.00 each
 3116 Cylinder Molds (Concrete / Grout / Mortar) 25.00 each
 3131 Compression Test Samples Cast by Others 145.00 each

ASTM C495
 3117 Lightweight insulating concrete (3" diameter x 6" cylinder) Compression tests 95.00 each

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 165.00 each
 3510 Shotcrete core compressive strength 195.00 each

ASTM C78/C293
 3135 Flexural strength of concrete, 6" x 6" x 24" specimen 395.00 each

ASTM C157 (MODIFIED)
 3115 Volume change of concrete, per set of 3 (drying shrinkage test), up to 28 days drying (excludes trial batch) 965.00 each

ASTM C109
 3113 Compression Tests, 2" cube specimen 125.00 each

ASTM C192
 3136 Laboratory Trial Batch (by project quote) 1,500.00/min

MASONRY

ASTM C135
 9401 Gross Area Compression \$325.00 each
 9405 Net Area Compression 315.00 each
 9402 Absorption and moisture content (*) 295.00 each
 9403 Linear shrinkage (rapid method) (*) 510.00 each

ASTM C426
 9406 Linear shrinkage (ASTM C426) (*) 525.00 each
 9408 Unit Weight (*) 245.00 each
 9404 Dimensional measurement/Equivalent web thickness (*) 225.00 each

UBC Standard
 3711 2" x 4" mortar cylinder 85.00 each
 3713 Grout sample 85.00 each
 3708 Composite prism 295.00 each

ASTM C1006
 9407 Splitting tensile (*) 125.00 each
 3717 Compression Test of CMU Core (CBC Title 24) 95.00 each
 3718 Shear Test of CMU Core (both face) (CBC Title 24) 125.00 each

ASTM C531
 9317 Linear Shrinkage & Coefficient of Thermal Expansion 600.00 each

BRICK

ASTM C67
 9409 Compression test \$95.00 each
 9411 Absorption test, saturation coefficient 115.00 each
 9306 Modulus of rupture 95.00 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).....	155.00 each

BUILT-UP ROOFING

7026 Basic weight analysis	\$365.00 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.....	\$245.00 each
9517 Over 1" up to 1-1/2" thickness.....	265.00 each
9539 Over 1-1/2" thickness.....	325.00 each
9519 End-Welded "Nelson" Studs	265.00 each

Cold Bend Testing:

9511 To 3/4" material thickness.....	225.00 each
9518 Over 3/4" up to 1-1/4" thickness.....	265.00 each

Flattening Tests on Pipe:

9508 To 10" diameter and 3/4" max. wall	245.00 each
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9543 Guided Side, Root or Face Bends and T-Break.....	195.00 each
9601 Standard Welder Qualification Test	665.00 each
9605 Macroetch Examination	325.00 each

REINFORCING STEEL

Tensile Testing Full Section (yield/ultimate/elongation):

9501 Bar Size through #8.....	\$255.00 each
9502 #9 through #11	325.00 each
9503 #14	375.00 each
9504 #18	395.00 each
9552 Coupled rebar through #11	325.00 each
9553 Coupled rebar through #14	395.00 each
9554 Coupled rebar through #18	425.00 each
9509 Cold Bend Testing on Bar Size #11 and smaller.....	255.00 each
9529 Cold Bend Testing on Bar Size #14.....	265.00 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.....	495.00 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.....	\$325.00 each
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Hardness Testing (3 points/sample)

9513 Rockwell / Brinell	225.00 each
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Charpy Impact Testing (minimum of 3 specimens):

9520 Room Temperature.....	165.00 each
9521 To minus 100 degrees Fahrenheit.....	195.00 each
9522 To minus 150 degrees Fahrenheit.....	225.00 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	\$195.00 each
9514 Ultimate Tensile.....	170.00 each
9515 Hardness (Rockwell) (*) including sample preparation	205.00 each

Nuts: to 1-1/8" inclusive

9535 Proof load	195.00 each
9536 Hardness (Rockwell) (*) including sample preparation	205.00 each

Washers: all sizes

9536 Hardness (Rockwell) (*) including sample preparation	205.00 each
9516 Carburization Depth	180.00 each

ASTM F959

9537 Load Indicator Washers (LIW), proof load	185.00 each
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SPECIALTY TESTING

ASTM A90

9700 Weight of galvanized coating (subject to environmental disposal fee)	\$265.00 each
9701 Other materials-aluminum, brass, bronze, fiberglass, etc	165.00 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	850.00 each