Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

35+ YEARS

April 17, 2024
Proposal No. 08SJO02-02606

Ms. Janice Chin, Assistant Engineer
Town of Los Gatos
Parks and Public Works Department
41 Miles Avenue,
Los Gatos California 95030

Subject: Proposal for Materials Testing Services for the
2024 Annual Curb, Gutter and Sidewalk Maintenance Project
Los Gatos, California
Project No.: 813-9921

Dear Ms. Chin:

Ninyo & Moore is pleased to submit this proposal to provide materials testing services for the 2024 Annual Curb, Gutter and Sidewalk Maintenance Project in Los Gatos, California. This proposal includes our proposed scope of services and associated cost estimates, which are based on our review of the project plans, specifications, and our previous experience with similar projects of this nature.

PROPOSED SCOPE OF SERVICES

Based on our review of the project documents, and our experience with similar projects, we propose to provide the following scope of services:

- Sampling of subgrade and aggregate base from the job site and transportation to our laboratory for testing.
- Maximum compacted density determinations of soils and aggregates in the laboratory accordance with ASTM D1557 for subgrade and aggregate base.
- In-place field density testing of soils and aggregates using a nuclear density gauge to determine the relative compaction of compacted subgrade and aggregate base.
- Concrete sampling and testing including slump and temperature tests of concrete and cast compressive strength test specimens (1 set / 150 cubic yards) on site.
- Concrete sample pick-up and transportation to our laboratory for curing and testing.
- Compression testing of concrete cylinders in the laboratory.
- Prepare daily field reports documenting observations and field test results, and reports of laboratory testing to be submitted to the project team.

- Prepare a final report at the completion of the project

ESTIMATED FEE

We propose to perform the scope of services described above, subject to the listed assumptions, on a time-and-materials basis in accordance with the attached Schedule of Fees.

Our fee estimate for the scope of services described for the project is **$18,555 (Eighteen Thousand Five Hundred Fifty Five Dollars)**. Our detailed estimate of fee is attached (Table 1). Should the construction schedule require a lesser or greater amount of services than that estimated herein, the cost will vary accordingly.

AUTHORIZATION

Please provide us with a Purchase Order as written authorization for us to proceed with the proposed services.

We sincerely appreciate the opportunity to submit this proposal and look forward to working with you on this project.

Respectfully submitted,
NINYO & MOORE

Rowell Sta Ana
Senior Staff Engineer

Lothus Hennefer
Construction Services Manager

RSA/LMH/rk

Attachments: Table 1 - Breakdown of Estimated Fee
Schedule of Fees

Table 1 - Breakdown of Estimated Fee								
Materials Testing								
Senior Technician	Compaction Testing (Subgrade & Aggregate Base)	80	hours	@	$	110.00	/hour	$ 8,800.00
Senior Technician	Concrete Sampling & Testing (Slump & Temperature)	20	hours	@	$	110.00	/hour	$ 2,200.00
Lab Compacted Maximum Density (ASTM D1557)	For Subgrade & Aggregate Base	5	tests	@	$	340.00	/test	$ 1,700.00
Compression Tests	5 Concrete Cylinders / 150 Cubic Yards (4"x 8" Cylinders)	25	tests	@	$	35.00	/test	$ 875.00
						Subtotal		**$ 13,575.00**
Reimbursables								
Field Vehicle Usage		100	hours	@	$	15.00	/hour	$ 1,500.00
Equipment Usage		100	hours	@	$	12.00	/hour	$ 1,200.00
						Subtotal		**$ 2,700.00**
Project Management								
Geotechnical / Project Assistant	Data Compilation & Distribution and Dispatch	4	hours	@	$	95.00	/hour	$ 380.00
Project Manager	Meetings, Project Coordination and Progress Report Preparation	8	hours	@	$	185.00	/hour	$ 1,480.00
Principal Engineer	Project Oversight & Consultation	2	hours	@	$	210.00	/hour	$ 420.00
						Subtotal		**$ 2,280.00**
TOTAL ESTIMATED FEE								**$ 18,555.00**

Schedule of Fees

Hourly Charges for Personnel

Professional Staff

Principal Engineer/Geologist/Environmental Scientist/Certified Industrial Hygienist	$ 210
Senior Engineer/Geologist/Environmental Scientist	$ 200
Senior Project Engineer/Geologist/Environmental Scientist	$ 195
Project Engineer/Geologist/Environmental Scientist	$ 185
Senior Staff Engineer/Geologist/Environmental Scientist	$ 170
Staff Engineer/Geologist/Environmental Scientist	$ 155
GIS Analyst	$ 130
Technical Illustrator/CAD Operator	$ 110

Field Staff

Certified Asbestos/Lead Technician	$ 195
Field Operations Manager	$ 130
Nondestructive Examination Technician (UT, MT, LP)	$ 125
Supervisory Technician	$ 120
Special Inspector (Concrete, Masonry, Structural Steel, Welding, and Fireproofing)	$ 115
Senior Technician	$ 110
Technician	$ 110

Administrative Staff

Information Specialist	$ 90
Geotechnical/Environmental/Laboratory Assistant	$ 95
Data Processor	$ 75

Other Charges

Concrete Coring Equipment (includes technician)	$ 190/hr
Anchor Load Test Equipment (includes technician)	$ 190/hr
GPR Equipment	$ 180/hr
State of California Prevailing Wage Surcharge	$ 30/hr
Inclinometer	$ 100/hr
Hand Auger Equipment	$ 80/hr
Rebar Locator (Pachometer)	$ 25/hr
Vapor Emission Kit	$ 65/kit
Nuclear Density Gauge	$ 12/hr
X-Ray Fluorescence	$ 70/hr
PID/FID	$ 25/hr
Air Sampling Pump	$ 10/hr
Field Vehicle	$ 15/hr
Expert Witness Testimony	$ 450/hr
Direct Expenses	Cost plus 15 %

Special equipment charges will be provided upon request.

Notes

Our field services, are charged at a 4-hour minimum, and 8-hour minimum for hours exceeding 4 hours. Overtime rates at 1.5 times the regular rates will be charged for work performed in excess of 8 hours in one day Monday through Friday and all day on Saturday. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day, all day Sunday and on holidays.

Field services that may be subject to prevailing wage in accordance with AB 1768 and Prevailing Wage Determinations, will be subject to a prevailing wage surcharge as shown in our Schedule of Fees. Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project, as applicable.

The terms and conditions are included in Ninyo & Moore's Work Authorization and Agreement form.

Schedule of Fees for Laboratory Testing

SOILS

Atterberg Limits, D 4318, CT 204	$ 170
California Bearing Ratio (CBR), D 1883	$ 550
Chloride and Sulfate Content, CT 417 & CT 422	$ 175
Consolidation, D 2435, CT 219	$ 300
Consolidation, Hydro-Collapse only, D 2435	$ 150
Consolidation – Time Rate, D 2435, CT 219	$ 200
Direct Shear – Remolded, D 3080	$ 350
Direct Shear – Undisturbed, D 3080	$ 300
Durability Index, CT 229	$ 175
Expansion Index, D 4829, IBC 18-3	$ 190
Expansion Potential (Method A), D 4546	$ 170
Geofabric Tensile and Elongation Test, D 4632	$ 200
Hydraulic Conductivity, D 5084	$ 350
Hydrometer Analysis, D 6913, CT 203	$ 220
Moisture, Ash, & Organic Matter of Peat/Organic Soils	$ 120
Moisture Only, D 2216, CT 226	$ 35
Moisture and Density, D 2937	$ 45
Permeability, CH, D 2434, CT 220	$ 300
pH and Resistivity, CT 643	$ 175
Proctor Density D1557, D 698, CT 216, AASHTO T-180	$ 220
Proctor Density with Rock Correction D 1557	$ 340
R-value, D 2844, CT 301	$ 375
Sand Equivalent, D 2419, CT 217	$ 125
Sieve Analysis, D 6913, CT 202	$ 145
Sieve Analysis, 200 Wash, D 1140, CT 202	$ 100
Specific Gravity, D 854	$ 125
Thermal Resistivity (ASTM 5334, IEEE 442)	$ 925
Triaxial Shear, C.D, D 4767, T 297	$ 550
Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt	$ 450
Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt	$ 350
Triaxial Shear, U.U., D 2850	$ 250
Unconfined Compression, D 2166, T 208	$ 180

MASONRY

Brick Absorption, 24-hour submersion, 5-hr boiling, 7-day, C 67	$ 70
Brick Compression Test, C 67	$ 55
Brick Efflorescence, C 67	$ 55
Brick Modulus of Rupture, C 67	$ 50
Brick Moisture as received, C 67	$ 45
Brick Saturation Coefficient, C 67	$ 60
Concrete Block Compression Test, 8x8x16, C 140	$ 70
Concrete Block Conformance Package, C 90	$ 500
Concrete Block Linear Shrinkage, C 426	$ 200
Concrete Block Unit Weight and Absorption, C 140	$ 70
Cores, Compression or Shear Bond, CA Code	$ 70
Masonry Grout, 3x3x6 prism compression, C 39	$ 45
Masonry Mortar, 2x2 cube compression, C 109	$ 35
Masonry Prism, half size, compression, C 1019	$ 120
Masonry Prism, Full size, compression, C 1019	$ 200

REINFORCING AND STRUCTURAL STEEL

Chemical Analysis, A 36, A 615	$ 135
Fireproofing Density Test, UBC 7-6	$ 90
Hardness Test, Rockwell, A 370	$ 80
High Strength Bolt, Nut & Washer Conformance, per assembly, A 325	$ 150
Mechanically Spliced Reinforcing Tensile Test, ACI	$ 175
Pre-Stress Strand (7 wire), A 416	$ 170
Reinforcing Tensile or Bend up to No. 11, A 615 & A 706	$ 75
Structural Steel Tensile Test: Up to 200,000 lbs., A 370	$ 90
Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI	$ 80

CONCRETE

Compression Tests, 6x12 Cylinder, C 39	$ 35
Concrete Mix Design Review, Job Spec	$ 300
Concrete Mix Design, per Trial Batch, 6 cylinder, ACI	$ 850
Concrete Cores, Compression (excludes sampling), C 42	$ 120
Drying Shrinkage, C 157	$ 400
Flexural Test, C 78	$ 85
Flexural Test, C 293	$ 85
Flexural Test, CT 523	$ 95
Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI	$ 275
Lightweight Concrete Fill, Compression, C 495	$ 80
Petrographic Analysis, C 856	$ 2,000
Restrained Expansion of Shrinkage Compensation	$ 450
Splitting Tensile Strength, C 496	$ 100
3x6 Grout, (CLSM), C 39	$ 55
2x2x2 Non-Shrink Grout, C 109	$ 55

ASPHALT

Air Voids, T 269	$ 85
Asphalt Mix Design, Caltrans (incl. Aggregate Quality)	$ 4,500
Asphalt Mix Design Review, Job Spec	$ 180
Dust Proportioning, CT LP-4	$ 85
Extraction, % Asphalt, including Gradation, D 2172, CT 382	$ 250
Extraction, % Asphalt without Gradation, D 2172, CT 382	$ 150
Film Stripping, CT 302	$ 120
Hveem Stability and Unit Weight D 1560, T 246, CT 366	$ 225
Marshall Stability, Flow and Unit Weight, T 245	$ 240
Maximum Theoretical Unit Weight, D 2041, CT 309	$ 150
Moisture Content, CT 370	$ 95
Moisture Susceptibility and Tensile Stress Ratio, T 238, CT 371	$ 1,000
Slurry Wet Track Abrasion, D 3910	$ 150
Superpave, Asphalt Mix Verification (incl. Aggregate Quality)	$ 4,900
Superpave, Gyratory Unit Wt., T 312	$ 100
Superpave, Hamburg Wheel, 20,000 passes, T 324	$ 1,000
Unit Weight sample or core, D 2726, CT 308	$ 100
Voids in Mineral Aggregate, (VMA) CT LP-2	$ 90
Voids filled with Asphalt, (VFA) CT LP-3	$ 90
Wax Density, D 1188	$ 140

AGGREGATES

Clay Lumps and Friable Particles, C 142	$ 180
Cleanness Value, CT 227	$ 180
Crushed Particles, CT 205	$ 175
Durability, Coarse or Fine, CT 229	$ 205
Fine Aggregate Angularity, ASTM C 1252, T 304, CT 234	$ 180
Flat and Elongated Particle, D 4791	$ 220
Lightweight Particles, C 123	$ 180
Los Angeles Abrasion, C 131 or C 535	$ 200
Material Finer than No. 200 Sieve by Washing, C 117	$ 90
Organic Impurities, C 40	$ 90
Potential Alkali Reactivity, Mortar Bar Method, Coarse, C 1260	$ 1,250
Potential Alkali Reactivity, Mortar Bar Method, Fine, C 1260	$ 950
Potential Reactivity of Aggregate (Chemical Method), C 289	$ 475
Sand Equivalent, T 176, CT 217	$ 125
Sieve Analysis, Coarse Aggregate, T 27, C 136	$ 120
Sieve Analysis, Fine Aggregate (including wash), T 27, C 136	$ 145
Sodium Sulfate Soundness, C 88	$ 450
Specific Gravity and Absorption, Coarse, C 127, CT 206	$ 115
Specific Gravity and Absorption, Fine, C 128, CT 207	$ 175

ROOFING

Roofing Tile Absorption, (set of 5), C 67	$ 250
Roofing Tile Strength Test, (set of 5), C 67	$ 250

Special preparation of standard test specimens will be charged at the technician's hourly rate.
Ninyo & Moore is accredited to perform the AASHTO equivalent of many ASTM test procedures.