

**Attachment
MRCA Item VI(g)
September 10, 2014**

July 21, 2014
Proposal No. P-16508

Mr. Blaine Yoder
Telacu Construction Management
414 W. 4th Street, Suite L
Santa Ana, California 92701

Subject: Proposal to Provide Materials Testing and Deputy Inspection Services
Milton Street Park
Los Angeles, California

Dear Mr. Yoder:

Ninyo & Moore is pleased to submit this proposal for materials testing and specialty deputy inspection services for the Milton Street Park project in Los Angeles, California. As your consultant, we will continue to provide you with high quality, comprehensive services in an efficient manner. Additional advantages offered by Ninyo & Moore include the following:

- A proven track record in timely services for a large number of similar projects, including during construction of the Marsh Park Project in Los Angeles.
- A project team composed of highly experienced engineers, geologists, technicians and inspectors who have recent experience with similar projects.
- The resources of Ninyo & Moore, one of the largest geotechnical, materials testing, inspection and environmental consulting firms in southern California employing 400 professionals and possessing four fully-equipped, in-house testing laboratories, will be fully available to provide quick response to this project.

PROJECT UNDERSTANDING

Ninyo & Moore is pleased to submit this cost proposal for deputy inspection and materials testing services during construction of the. Based on our discussions with you and our review of the project plans, we understand that the project will generally consist of constructing a new park between Milton Street and Ballona Creek. The construction for the new park will include gabion walls, a shade structure, concrete steps and ramps, a storage shed, a gateway structure, wooden deck area, concrete benches, a new irrigation system, and concrete and decomposed granite paved areas. The wooden deck, gabion walls, gateway structure, shade structure, storage shed and sliding gate will be supported by concrete footings. Structurally, the gateway and shade structures will include structural steel framing. Per the notes on Sheet

S1.01, specialty deputy inspections are required for concrete, soil and steel. The street improvements will generally include vegetated storm water curb extensions, concrete sidewalks, curbs and gutters, and a new irrigation system.

SCOPE OF SERVICES

Based on our understanding of the proposed construction and our experience with similar projects, we propose to provide the following scope of services:

- Project coordination, management and technical support including review of the project geotechnical reports, plans and specifications, work scheduling and distribution of test data.
- Attendance at pre-construction meetings and as-requested field meetings.
- Field technician services for observation, documentation, sampling and testing during earthwork including, site work, wall backfill, subgrade preparation, trench backfill and during foundation preparation.
- Deputy inspection services during structural concrete construction including checking rebar grade, size, spacing, location, and clearances to formwork prior to concrete placement.
- Deputy inspection services during structural steel welding and bolting in the field.
- Concrete sampling and testing including checking mix design, slump, temperature air content, unit weight and casting cylinders for compressive strength testing in accordance with the project specifications.
- Preparation of progress reports, test data sheets and field memoranda to document the items inspected.
- Laboratory testing including proctor density, sieve analysis, sand equivalent, and compressive strength testing of concrete samples cast in the field.
- Preparation and submittal of the Final As-Graded Report which presents the results of our observations and summarizes the field density test results.

RELATED PROJECT EXPERIENCE

The following are detailed descriptions of some of Ninyo & Moore's relevant projects successfully completed by our staff that demonstrates our competence to perform work similar in scope and magnitude to that required for this project.

Marsh Park, Los Angeles, California

Client: Mountains Recreation & Conservation Authority

Contact: Ms. Laura Saltzman; (323) 221-9944

Site Contact: Mr. Eli Belknap – TELACU; (323) 855-6013

Ninyo & Moore provided geotechnical and materials testing and deputy inspection services during construction of the Marsh Park project located in Los Angeles, California. The park construction included a new restroom building, picnic shelter, storage structure, trash enclosure, perimeter site walls, seat walls, and an asphalt concrete parking lot, as well as new bio-swale, utility pipeline, concrete pavement, decomposed granite and landscaping construction. Our geotechnical field services included density testing during the site rough grading operations that included overexcavation and recompaction of nearly the entire site in order to remove and replaced the existing undocumented fills present with engineered fill, as well as density testing during the project various trench and structural backfill, subgrade, aggregate base, decomposed granite and asphalt concrete recompaction operations. We also provided deputy inspection services during the project reinforced concrete, masonry and structural steel construction operations. Interim and final geotechnical compaction reports were submitted at the conclusion of the project initial rough grading and final earthwork operations. The two reports were successfully approved by the City of Los Angeles Department of Building and Safety without delay to the project's subsequent construction or final City approval. Ninyo & Moore's project management staff maintained a positive working relationship with the project construction management team in order to provide our geotechnical and materials testing and deputy inspection services in a cost effective manner.

Fire Station No. 82, West Hollywood, California

Client: City of Los Angeles, Department of Public Works, Bureau of Engineering
Contact: Mr. Curtis Gee; (213) 847-0485

Ninyo & Moore was retained to provide geotechnical construction support services for the new Fire Station No. 82 located at 5769 West Hollywood in Los Angeles, California. The new fire station consisted of a three-story, steel-frame structure supported on shallow footing foundations and a slab-on-grade. The new fire station included an apparatus room, living quarters, a hose tower, and training/parking area. Services provided by Ninyo & Moore consisted of geotechnical observation of the building pad overexcavation which extended 3 feet below the building slab, scarification and compaction of the overexcavation bottom, and field density testing of the pad backfill. Our field services were performed on both a full-time and part-time basis under the direction of Mr. Curtis Gee with the City's Geotechnical Engineering Division (GED). Inspection reports were faxed to the City on a daily basis. Associated laboratory testing performed in conjunction with the field work included tests to evaluate the maximum density and optimum moisture content, sieve analysis, and direct shear of the compacted native soils.

Fire Station No. 78, Sherman Oaks California

Client: City of Los Angeles, Department of Public Works, Bureau of Engineering
Contact: Ms. Kimberly Ohara; (213) 847-0528

Ninyo & Moore was retained to provide geotechnical construction support services for the new Fire Station No. 78 located at 4041 North Whittsett Boulevard in Sherman Oaks, California. The new fire station consisted of a two-story, 15,500 square-foot fire station, which included an apparatus room, living quarters, a hose tower, and training/parking area. Services provided by Ninyo & Moore consisted of geotechnical observation of the building pad overexcavation which extended 3 to 4 feet below the building slab, scarification and compaction of the overexcavation

bottom, and field density testing of the pad backfill. Our field services were performed on both a full-time and part-time basis under the direction of Ms. Kimberly Ohara with the City's Geotechnical Engineering Division (GEO). Inspection reports were faxed to the City on a daily basis. Associated laboratory testing performed in conjunction with the field work included tests to evaluate the maximum density and optimum moisture content, sieve analysis, direct shear, and consolidation of the compacted native soils.

Costa Mesa Police Station Expansion Project, City of Costa Mesa, California

Client: Harris & Associates
Contact: Jim Guerrero (714) 742-4430

Ninyo & Moore provided deputy inspection, materials testing and geotechnical consulting services during the construction of the Costa Mesa Police Station Expansion Project located in Costa Mesa, California. The project generally consisted of an approximately 11,500 square foot addition and structural retrofit of the existing two-story structure. Ninyo & Moore provided deputy inspection and materials testing services. Structurally, the construction for the new addition included concrete spread footings and slab on grade and structural steel framing. The retrofit to the existing building included reinforced concrete foundations, shear walls and slab on grade and structural steel framing. The project also included a concrete masonry unit (CMU) site wall. Our services included inspection and testing during structural steel welding and bolting, concrete deputy inspection, masonry deputy inspection and inspection during fire-proofing installation. Our materials testing services included sampling and compressive strength testing of concrete, grout, mortar and CMU composite prisms. Our services also included load and torque testing of expansion and epoxy anchor bolts. The existing police station remained operational during the construction. Some of our services were performed on weekends and at night. At the completion of the project, a final inspections and materials report was prepared and submitted to the City Building Department.

Hollywood Multipurpose Intergenerational Center, Los Angeles, California

Client: City of Los Angeles, Department of Public Works, Bureau of Engineering
Contact: Mr. Curtis Gee; (213) 847-0485

Ninyo & Moore was retained to provide geotechnical construction support services for the new Hollywood Multipurpose Intergenerational Center located at 11480 Tiara Street in Los Angeles, California. The new center consists of a 2,200 square-foot steel-frame structure supported on a shallow foundation and a slab-on-grade. The project included construction of new exterior trellises, a playground, outdoor amphitheater, and board game areas, as well as a new parking lot. Services provided by Ninyo & Moore have consisted of geotechnical observation and density testing during the new building and trellis pad areas, as well as the new hardscape areas overexcavation and recompaction operations. Our field services were performed on both a full-time and part-time basis under the direction of Mr. Curtis Gee with the City's Geotechnical Engineering Division (GED). Inspection reports were provided to the City on a daily basis. Associated geotechnical and environmental laboratory testing was performed in conjunction with the field work.

Brand Park Community Center, Mission Hills, California

Client: City of Los Angeles, Department of Public Works, Bureau of Engineering

Contact: Mr. Benjamin Moore; (213) 847-0476 (*no longer with agency*)

Ninyo & Moore was retained to provide geotechnical construction support services for the new Brand Park Community Center located at 15121 South Brand Boulevard in Mission Hills, California. The new center consists of a one-story, 2,200 square-foot structure providing a community room, kitchen, restrooms, and storage. Services provided by Ninyo & Moore consisted of geotechnical observation of the building pad overexcavation which extended 3 feet below the building slab, scarification and compaction of the overexcavation bottom, and field density testing of the pad backfill. Our field services were performed on both a full-time and part-time basis under the direction of Mr. Benjamin Moore with the City's Geotechnical Engineering Division (GEO). Inspection reports were faxed to the City on a daily basis. Associated laboratory testing performed in conjunction with the field work included tests to evaluate the maximum density and optimum moisture content of the native soils.

ASSUMPTIONS

Based on our experience with similar projects, the following assumptions have been made in the preparation of our scope of services:

- Our services will be scheduled and coordinated by the construction manager on an as-needed basis.
- Our services are subject to prevailing wage requirements.
- Our estimated fee does not include stand-by time or costs associated with retesting or reinspecting materials that were found not to be in compliance with the project plans or specifications. Our services will depend on the construction schedule and the contractor's operations. Hours spent that exceed those in the attached table will be billed on a time-and-materials basis.

ESTIMATED FEE

We propose to provide our services on a time-and-materials basis in accordance with the attached Schedule of Fees and Schedule of Fees for Laboratory Testing. Our estimated fee for the scope of services described herein is presented in the attached Table 1.

Ninyo & Moore appreciates the opportunity to submit this proposal.

Respectfully submitted,
NINYO & MOORE



A. "Tino" Rodriguez
Principal, Construction Services

AR/lr

Attachments: Table 1 – Breakdown of Estimated Fee
Schedule of Fees
Schedule of Fees for Laboratory Testing

Distribution: (1) Addressee (via e-mail)

TABLE 1 - BREAKDOWN OF ESTIMATED FEE

PROJECT MANAGEMENT AND TECHNICAL SUPPORT				
Project Engineer/Geologist	16 hours	@	\$ 142.00 /hour	\$ 2,272.00
Subtotal				\$ 2,272.00

FIELD SERVICES				
Field Technician				
Sitework	64 hours	@	\$ 79.00 /hour	\$ 5,056.00
Structure and Trench Backfill	40 hours	@	\$ 79.00 /hour	\$ 3,160.00
Subgrade and Aggregate Base	32 hours	@	\$ 79.00 /hour	\$ 2,528.00
Specialty Deputy Inspector				
Concrete	52 hours	@	\$ 79.00 /hour	\$ 4,108.00
Steel	40 hours	@	\$ 79.00 /hour	\$ 3,160.00
Sample Pick-up	8 hours	@	\$ 79.00 /hour	\$ 632.00
Vehicle and Equipment Usage	236 hours	@	\$ 10.00 /hour	\$ 2,360.00
Subtotal				\$ 21,004.00

LABORATORY ANALYSES				
Sieve Analysis (T-27)	3 tests	@	\$ 110.00 /test	\$ 330.00
Sand Equivalent	3 tests	@	\$ 90.00 /test	\$ 270.00
Proctor Density (ASTM 1557)	6 tests	@	\$ 180.00 /test	\$ 1,080.00
Concrete Compression Tests	40 tests	@	\$ 22.00 /test	\$ 880.00
Subtotal				\$ 2,560.00

REPORT PREPARATION				
Principal Engineer/Geologist	2 hours	@	\$ 154.00 /hour	\$ 308.00
Project Engineer/Geologist	8 hours	@	\$ 142.00 /hour	\$ 1,136.00
Technical Illustrator/CAD Operator	4 hours	@	\$ 78.00 /hour	\$ 312.00
Data Processing/Technical Editing	4 hours	@	\$ 58.00 /hour	\$ 232.00
Subtotal				\$ 1,988.00

TOTAL ESTIMATED FEE				\$ 27,824.00
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SCHEDULE OF FEES

HOURLY CHARGES FOR PERSONNEL

Principal Engineer/Geologist/Environmental Scientist	\$ 154
Senior Engineer/Geologist/Environmental Scientist.....	\$ 148
Senior Project Engineer/Geologist/Environmental Scientist	\$ 145
Project Engineer/Geologist/Environmental Scientist.....	\$ 142
Senior Staff Engineer/Geologist/Environmental Scientist.....	\$ 128
Staff Engineer/Geologist/Environmental Scientist.....	\$ 120
GIS Analyst	\$ 120
Field Operations Manager	\$ 95
Supervisory Technician*	\$ 86
Nondestructive Examination Technician*, UT, MT, LP.....	\$ 85
Senior Field/Laboratory Technician*	\$ 79
Field/Laboratory Technician*	\$ 79
ACI Concrete Technician*	\$ 79
Concrete/Asphalt Batch Plant Inspector*	\$ 79
Special Inspector (Concrete, Masonry, Steel, Welding, and Fireproofing)*	\$ 79
Technical Illustrator/CAD Operator.....	\$ 78
Geotechnical/Environmental/Laboratory Assistant	\$ 66
Information Specialist.....	\$ 66
Data Processing, Technical Editing, or Reproduction.....	\$ 58

OTHER CHARGES

Concrete Coring Equipment (includes one technician)	\$ 160 /hr
PID/FID Usage.....	\$ 120 /day
Anchor load test equipment (includes technician)	\$ 89 /hr
Hand Auger Equipment	\$ 55 /day
Inclinometer Usage	\$ 32 /hr
Vapor Emission Kits.....	\$ 30 /kit
Level D Personal Protective Equipment (per person per day)	\$ 25 /p/d
Rebar Locator (Pachometer).....	\$ 22 /hr
Nuclear Density Gauge Usage.....	\$ 12 /hr
Field Vehicle Usage.....	\$ 10 /hr
Direct Project Expenses.....	Cost plus 15 %
Laboratory testing, geophysical equipment, and other special equipment provided upon request.	

NOTES (Field Services)

For field and laboratory technicians and special inspectors, regular hourly rates are charged during normal weekday construction hours. Overtime rates at 1.5 times the regular rates will be charged for work performed outside normal construction hours and all day on Saturdays. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day or on Sundays and holidays. Lead time for any requested service is 24 hours. Field Technician rates are based on a 4-hour minimum. Special inspection rates are based on a 4-hour minimum for the first 4 hours and an 8-hour minimum for hours exceeding 4 hours. Field personnel are charged portal to portal.

*Indicates rates that are based on Prevailing Wage Determination made by the State of California, Director of Industrial Relations on a semiannual basis. Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project.

INVOICES

Invoices will be submitted monthly and are due upon receipt. A service charge of 1.0 percent per month may be charged on accounts not paid within 30 days.

TERMS AND CONDITIONS

The terms and conditions of providing our consulting services include our limitation of liability and indemnities as presented in Ninyo & Moore's Work Authorization and Agreement.

SCHEDULE OF FEES FOR LABORATORY TESTING
Laboratory Test, Test Designation, and Price Per Test

Soils

Atterberg Limits, D 4318, CT 204	\$ 145
California Bearing Ratio (CBR), D 1883	\$ 440
Chloride and Sulfate Content, CT 417 & CT 422	\$ 135
Consolidation, D 2435, CT 219	\$ 275
Consolidation – Time Rate, D 2435, CT 219	\$ 70
Direct Shear – Remolded, D 3080	\$ 290
Direct Shear – Undisturbed, D 3080	\$ 250
Durability Index, CT 229	\$ 150
Expansion Index, D 4829, UBC 18-2	\$ 165
Expansion Potential (Method A), D 4546	\$ 145
Expansive Pressure (Method C), D 4546	\$ 145
Geofabric Tensile and Elongation Test, D 4632	\$ 165
Hydraulic Conductivity, D 5084	\$ 300
Hydrometer Analysis, D 422, CT 203	\$ 190
Moisture, Ash, & Organic Matter of Peat/Organic Soils	\$ 110
Moisture Only, D 2216, CT 226	\$ 30
Moisture and Density, D 2937	\$ 39
Permeability, CH, D 2434, CT 220	\$ 230
pH and Resistivity, CT 643	\$ 140
Proctor Density D 1557, D 698, CT 216, & AASHTO T-180 (Rock corrections add \$80)	\$ 180
R-value, D 2844, CT 301	\$ 250
Sand Equivalent, D 2419, CT 217	\$ 90
Sieve Analysis, D 422, CT 202	\$ 110
Sieve Analysis, 200 Wash, D 1140, CT 202	\$ 90
Specific Gravity, D 854	\$ 90
Thermal Resistivity (ASTM 5334, IEEE 442)	\$ 800
Triaxial Shear, C.D, D 4767, T 297	\$ 390
Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt.	\$ 330
Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt.	\$ 190
Triaxial Shear, U.U., D 2850	\$ 140
Unconfined Compression, D 2166, T 208	\$ 100
Wax Density, D 1188	\$ 90

Roofing

Built-up Roofing, cut-out samples, D 2829	\$ 165
Roofing Materials Analysis, D 2829	\$ 500
Roofing Tile Absorption, (set of 5), UBC 15-5	\$ 190
Roofing Tile Strength Test, (set of 5), UBC 15-5	\$ 190

Masonry

Brick Absorption, 24-hour submersion, C 67	\$ 45
Brick Absorption, 5-hour boiling, C 67	\$ 55
Brick Absorption, 7-day, C 67	\$ 60
Brick Compression Test, C 67	\$ 45
Brick Efflorescence, C 67	\$ 45
Brick Modulus of Rupture, C 67	\$ 40
Brick Moisture as received, C 67	\$ 35
Brick Saturation Coefficient, C 67	\$ 50
Concrete Block Compression Test, 8x8x16, C 140	\$ 60
Concrete Block Conformance Package, C 90	\$ 440
Concrete Block Linear Shrinkage, C 426	\$ 120
Concrete Block Unit Weight and Absorption, C 140	\$ 55
Cores, Compression or Shear Bond, CA Code	\$ 55
Masonry Grout, 3x3x6 prism compression, UBC 21-18	\$ 30
Masonry Mortar, 2x4 cylinder compression, UBC 21-16	\$ 30
Masonry Prism, half size, compression, UBC 21-17	\$ 110

Special preparation of standard test specimens will be charged at the technician's hourly rate.

Concrete

Cement Analysis Chemical and Physical, C 109	\$ 1,650
Compression Tests, 6x12 Cylinder, C 39	\$ 22
Concrete Mix Design Review, Job Spec	\$ 140
Concrete Mix Design, per Trial Batch, 6 cylinder, ACI	\$ 750
Concrete Cores, Compression (excludes sampling), C 42	\$ 55
Drying Shrinkage, C 157	\$ 250
Flexural Test, C 78	\$ 50
Flexural Test, C 293	\$ 55
Flexural Test, CT 523	\$ 60
Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI	\$ 250
Jobsite Testing Laboratory	Quote
Lightweight Concrete Fill, Compression, C 495	\$ 40
Petrographic Analysis, C 856	\$ 1,100
Splitting Tensile Strength, C 496	\$ 80

Reinforcing and Structural Steel

Fireproofing Density Test, UBC 7-6	\$ 55
Hardness Test, Rockwell, A-370	\$ 50
High Strength Bolt, Nut & Washer Conformance, set, A-325	\$ 120
Mechanically Spliced Reinforcing Tensile Test, ACI	\$ 95
Pre-Stress Strand (7 wire), A 416	\$ 140
Chemical Analysis, A-36, A-615	\$ 120
Reinforcing Tensile or Bend up to No. 11, A 615 & A 706	\$ 50
Structural Steel Tensile Test: Up to 200,000 lbs. (machining extra), A 370	\$ 70
Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI	\$ 55

Asphalt Concrete

Asphalt Mix Design, Caltrans	\$ 2,200
Asphalt Mix Design Review, Job Spec	\$ 150
Extraction, % Asphalt, including Gradation, D 2172, CT 382	\$ 215
Film Stripping, CT 302	\$ 100
Hveem Stability and Unit Weight CTM or ASTM, CT 366	\$ 195
Marshall Stability, Flow and Unit Weight, T-245	\$ 215
Maximum Theoretical Unit Weight, D 2041	\$ 120
Swell, CT 305	\$ 165
Unit Weight sample or core, D 2726, CT 308	\$ 90

Aggregates

Absorption, Coarse, C 127	\$ 35
Absorption, Fine, C 128	\$ 35
Clay Lumps and Friable Particles, C 142	\$ 100
Cleaness Value, CT 227	\$ 120
Crushed Particles, CT 205	\$ 140
Durability, Coarse, CT 229	\$ 130
Durability, Fine, CT 229	\$ 130
Los Angeles Abrasion, C 131 or C 535	\$ 180
Mortar making properties of fine aggregate, C 87	\$ 275
Organic Impurities, C 40	\$ 55
Potential Reactivity of Aggregate (Chemical Method), C 289	\$ 390
Sand Equivalent, CT 217	\$ 90
Sieve Analysis, Coarse Aggregate, C 136	\$ 105
Sieve Analysis, Fine Aggregate (including wash), C 136	\$ 105
Sodium Sulfate Soundness (per size fraction), C 88	\$ 160
Specific Gravity, Coarse, C 127	\$ 75
Specific Gravity, Fine, C 128	\$ 85

Ninyo & Moore is accredited to perform the AASHTO equivalent of many ASTM test procedures.