

September 23, 2019

Mr. Hector Gonzalez, PE
Principle Civil Engineer
City of Rialto
Department of Public Works
335 West Rialto Avenue
Rialto, California 92376

**Subject: PROPOSAL / FEE SCHEDULE – Construction Management & Inspection Services
Etiwanda Corridor Improvements Project | RFB No. 20-004**

Dear Mr. Gonzalez,

PPM Group, Inc. is pleased to submit our proposal to provide construction management and inspection services to the City of Rialto for Etiwanda Corridor Improvements Project.

Project Understanding. PPM Group understand that the City of Rialto is requesting construction inspection for asphalt paving, curbs & gutters, ADA ramps, electrical inspection, labor compliance and prevailing wage compliance services for the Etiwanda Corridor Improvement project. We understand that the work is located on Etiwanda Avenue from Maple Avenue to Pepper Avenue; Baseline Road from Maple Avenue to Pepper Avenue; Maple Avenue, Riverside, and Pepper Avenue as identified in the project location map in the Part III-Appendix. It is our understanding that the project includes roadway; temporary traffic control, Water Pollution Control, Construction Survey and Monumentation, construct curb ramps, 8" curbs, 8" curb and gutters, cross gutters, 4" thick PCC sidewalks, curb ramps, full depth AC Pavement over 12" 95% compacted native subgrade, grind and overlay existing pavement with 0.10' AC Min, adjust existing utility to grade, signing and striping. The project also includes electrical inspection. In general, electrical inspection services consists of installing a new video detection system at Etiwanda Avenue and Cactus Avenue and a new pedestrian push button and loop detectors at Etiwanda Avenue and Riverside Avenue. Labor Compliance and Prevailing Wage compliance is also required on the Etiwanda Corridor Improvements Project pursuant to California Labor Code Sections 1773

PPM Group also understands that the Engineer's Estimate for the project is \$950,000 to \$1,100,000 for a duration of 45 working days and an additional 20 working days for traffic control plan approval. It is also understood that the Bid Opening was on September 12, 2019. All work will be completed in accordance with these bid documents, the approved project drawings, the City of Rialto's Standard Specifications for Public Works Construction ("Greenbook"), 2015 Edition, including all current supplements, addenda, and revisions thereof. Contract Special Provisions, and the Standard Plans identified in Part III- Appendix; Caltrans Standard Specifications and Plans 2018 Edition; and **Amended Standard Specifications** – the amendments identified in Part II – Contract Special Provisions.

The Right Team. PPM Group is proposing **Lawrence Taylor, Construction Inspector / Electrical**. Lawrence has more than 17 years of construction inspection, electrical inspection, and civil engineering experience on various public, private and capital improvement projects for various Cities, Counties, Caltrans, and local agencies. **Lawrence's experience includes ensuring ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, detectable warning surface width, depth, and material compliance, conforming sidewalk slopes, curb ramp surface finish, obstructions, Pedestrian Push Button height and wheelchair accessibility at a signalized intersection, surface of the roadway in front of the curb ramp, condition of the existing sidewalk and retaining curb backfill. He experience also includes paving, rehabilitation, and improvements including roadway excavation, storm drain systems; sewer systems; grinding, crack filling, asphalt concrete (AC) and Portland Cement Concrete (PCC) pavements; alleyway approaches, curb, gutters and ramps, driveway aprons, sidewalks and ADA ramp improvements projects; striping and markings, traffic signal improvements work, traffic control, landscaping and Rock Slope Protection.** He is also experienced with reviewing submittals, monitoring demolitions, completing daily reports and quality calculations for payment vouchers. He is competent with Caltrans Standard Specifications, Standard Plans, Construction Manuals and Traffic Manual.

Cesar Cerda is a Construction Inspection with more than 32 years of construction inspection experience. He has worked on various public and commercial projects. Cesar's experience includes field engineering on a variety of construction projects including roadway construction, emergency repair, highway rehabilitation and capital improvement projects. **His experience includes, but not limited to: ensuring ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to Pedestrian Push Button height and wheelchair accessibility at a signalized intersection, verification of ramp width, detectable warning surface width, depth, and material compliance, condition of the existing sidewalk and retaining curb backfill; conforming sidewalk slopes, curb ramp surface finish, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, obstructions, surface of the roadway in front of the curb ramp. Cesar is also experience with roadway excavation, grade checking, Cold Planning and Resurfacing, Asphalt Paving (HMA and ARAM), AC Dike, curb, gutters, sidewalk, concrete pavement, drainage and sewer systems, grouted rock strip, landscaping, retaining wall, striping, signalization, SWPPP, traffic control, and safety.** His prior responsibilities, among others, included roadway embankments, grade checking using survey stakes, hot mixed asphalt (HMA, RHMA), PCC paving, drainage structures, slope paving; MBGR installation, roadway and highway widening and improvements, removing and replacing sidewalks, curbs, gutters, driveways, ADA curb ramps, concrete foundations, mill and pave, slurry seal, erosion control and remove and replace striping, streetlights installation, traffic control and SWPPP compliance. He is competent with Caltrans Standard Specifications, Standard Plans, Construction manual and Traffic Manual.

Oscar Eftekhari, Construction Inspector has 30 years of experience in construction inspection of roadways and highways. **Oscar's experience includes excavation inspection, grade checking, Portland Cement Concrete, Hot Mix Asphalt (HMA & RHMA) pavement, Asphalt dike, concrete pavement, material sampling and testing. His areas of expertise include JPCP / HMA / RSC / cold in place recycled paving, curb and gutter, sidewalks, ramps and ADA ramps, pile driving, SWPPP / WPC, and CIDH foundation. His experience includes ensuring ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, surface of the roadway in front of the curb ramp, detectable warning surface width, depth, and material compliance, conforming sidewalk slopes, curb ramp surface finish, obstructions, condition of the existing sidewalk and retaining curb backfill, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection.** His project experience also involves drainage and sewer systems, utilities, striping, grinding, earthwork, signal and lighting work, Midwest Guardrail System (MGS), and soil nailing. He is responsible for scheduling, coordinating, facilitating and documenting various meetings with stakeholders, public officials, contractors and affected third party or businesses, utility companies and local agencies. He is also well familiar with Caltrans Standard Specifications, Standard Plans, Construction manual and Traffic Manual.

Supporting our inspectors, on as needed and part-time basis, is our Construction Manager / Resident Engineer, Fred Alipanah, PE, and Nicole Salem for Document Control / Labor Compliance tasks.

Fred Alipanah, PE, Contraction Manager / Resident Engineer has more than 30 years of experience in project and construction management, structural and civil engineering, and construction inspection. Fred worked for Caltrans District 7 and 8 for over 20 years.

Nicole Salem, Document Control / Labor Compliance has over 14 years of experience in the construction and engineering industries with expertise in contract administration, office engineering, document control, and labor compliance for transportation, public works, and infrastructure projects and in compliance with Federal, State and local agency requirements.

Estimated Hours. Based on our review of the plans, project construction schedule provided, we anticipate that our inspection services will vary and not exceed an average of 8 hours per day. Below are PPM Group's estimated hours that may be needed to provide development inspection for on-site elements:

		Project Time Needed	Pre-construction Phase	Construction Phase	Post Construction Phase	Total Hours	Billing Rate	Total
Staff Member/Certification	Project Assignment	Project Assignment						
TBD	Construction Inspector	100%	10	340	10	360	\$ 130.00	\$ 46,800.00
Fred Alipanah, PE	Construction Manager / Resident Engineer	20%	8	40	8	56	\$ 185.00	\$ 10,360.00
Subtotal Construction Management:								\$ 57,160.00

Subconsultants	Services	Total
Ninyo & More	Materials Testing	\$ 10,788.00
Subtotal Subconsultants:		\$ 10,788.00
Total Cost		\$ 67,948.00

Limitations & Conditions:

Construction duration is estimated at 45 working days with 3 days for pre-construction and 3 days for closeout.

Inspectors will be fully equipped with vehicles, computers, tools, and equipment required to perform their tasks.

Overtime and weekend work is not included. Overtime is to be charged at 1.5 the above rate for Inspection work only.

Cost proposal is subject to prevailing wage rates and prevailing wage rate changes for inspection.

Contractor/SB County will provide field office space and office supplies needed.

PPM Group's rates are fully inclusive of all overhead, profit, equipment, tools, supplies, reprographic cost, vehicles, travel and labor burden.

The Right Team. PPM Group's team members offers more than 37 years of experience with engineering and inspection services for Capital Improvement Projects for public works, transportation, infrastructure, land development, and building projects. Our proposed staff are cross trained, qualified, and experienced in public works projects. Our proposed inspectors have worked on various public works projects for various local agencies and cities including, but not limited to the Cities of Upland, Rialto, Rancho Cucamonga, Fontana, Moreno Valley, Whittier, Indio, Camarillo, Glendale, Carson, and South Gate; Counties of San Bernardino, Riverside and Los Angeles; and various agencies including, but not limited to Caltrans District 7 and 8, Riverside County Transportation District, Ontario International Airport Authority, and John Wayne Airport.

I look forward to presenting our project team. If you have any questions or require additional information, please contact me at 909.262.4770 or by email at mtahan@ppmgroup-inc.com.

Verv truly yours,



Michael Tahan, CCM, Project Manger
Vice President

cc: Rima Tahan, President / CEO



LAWRENCE TAYLOR

Construction Inspector / Electrical Inspector

EDUCATION

AS, Engineering, National
Education Center, Anaheim

CERTIFICATIONS

Cal OSHA 30-Hours
Defensive Driving

YEARS OF EXPERIENCE

17 Years

AREAS OF EXPERTISE

- 17 Years of Construction Inspection Experience
- Roadway, Highway, Interchanges
- Pavement Management and Reconstruction

Mr. Taylor has 17 years of roadway construction inspection and electrical inspection, CADD operation and civil engineering experience. Lawrence's experience includes roadways, state highways, private and public works construction inspection of, AC and PCC paving, Cold Plane & Pave, concrete sidewalks, curbs, curb & gutters, curb ramps, storm drain systems, water and sewer lines installation, dry and wet utilities, grading, excavation, earthwork, and electrical installations, such as Traffic Signal, video Cameras, pedestrian push buttons and underground utilities. **His experience also includes ensuring ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, surface of the roadway in front of the curb ramp, detectable warning surface width, depth, and material compliance, conforming sidewalk slopes, curb ramp surface finish, obstructions, condition of the existing sidewalk and retaining curb backfill, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection.**

Lawrence experienced also includes state highways, and local street improvement construction works, including AC Paving, Cold Plane & Pave, Concrete Paving, storm drain systems, water and sewer lines installation, dry and wet utilities, excavation, grade checking, earthwork, electrical installations, and underground utilities. His experience also includes inspection of RHMA / HMA / JCPC / JPCP-RSC / grade checking, curb & gutters, curb ramp, sidewalks, Spandrel V-gutter, drainage and sewer systems, grouted rock strip, landscaping, retaining wall, striping, signalization, SWPPP, traffic control, and safety. Lawrence coordinates wet and dry utility installations for telephone, electrical, cable television, traffic signalization, gas relocations, landscape and irrigation improvements. He is experienced with Standard Specifications for Public Works Construction (Greenbook), Standard Plans for Public Works Construction, Cal/OSHA Construction Safety Orders, Standard Plans, and Special Provisions.

RELEVANT EXPERIENCE

City of Whittier, Nelles at the Grove in Whittier (WUA18-027), Whittier, CA

Field Inspector. The project includes demolition of the 68 buildings and new construction of 561 homes, 189 apartments and 150,000 square feet of retail and restaurant space. Four historic buildings will be preserved. Project also includes for new neighborhood parks and open space, as well as the restoration and reuse of four buildings from the 1920s and 1930s as part of the commercial and residential areas. Responsibilities include field inspection of asphalt concrete pavement, mill and resurfacing, AC dike, electrical work, coordinating with utility companies', landscaping, irrigation, grading, traffic signals, street lights, water systems, sewer systems and traffic control, concrete drainage pools and overseeing compliance testing. **Lawrence was responsible for ensuring ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, surface of the roadway in front of the curb ramp, conforming sidewalk slopes, curb ramp surface finish, obstructions, condition of the existing sidewalk and retaining curb backfill, detectable warning surface width, depth, and material compliance, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection. He is also responsible for ARAM / JCPC / HMA / RSC / cold foam in place recycled paving, curb, gutters, sidewalks, grade checking, concrete pavement, drainage and sewer systems, grouted rock strip, landscaping, retaining wall, striping, signalization, SWPPP, traffic control, and safety.** Project Cost: \$42 Million.



Ontario International Airport Authority (OIAA), On-Call Construction Management, Ontario, CA

Field Engineer / Construction Inspector. Ontario International Airport (ONT) is a medium hub airport serving about four million passengers per year and is a major air-cargo facility in Southern California. The project requires construction management and related services on a regular basis to ensure OIAA projects and various tenant projects are completed according to their design and construction specifications. The project includes removing 52 acres of parking lot located at the northwest quadrant of the airport land side and the removal of asphalt paving, fencing and electrical appurtenances; and stock piling. Responsible for inspection of the realignment of vehicle service road (VSR) in two phases, installation of security fences, utility relocation SWPPP, traffic control and safety. **Responsibilities included HMA paving excavation, grade checking, demolition of concrete pavement, removal of asphalt and concrete pavement.** Project Cost: Various.

City of Carson, Wilmington / SR-405 Bridge Improvement, Carson, CA

Lead Inspector. The project entails working on the Interstate 405 and Wilmington Avenue Interchange. Administered by the City of Carson, the project modified the I-405 Freeway and Wilmington Avenue Interchange, by adding a new on-ramp, modified Wilmington Avenue roadway, sidewalks, ADA ramps, widened the 405 Freeway over the Dominguez Channel, retrofit and widen the bridge at 223rd Street, rebuilt 223rd Street roadway and intersections along Wilmington Avenue. . Lawrence was responsible for placement of JPCP, joint seal, ADA compliance, striping, electrical, polyester paving, striping, roadway excavation, and daily documentation. **Lawrence was responsible for inspection of JPCP, RHMA and HMA pavements curbs, gutters, sidewalk, grade checking, drainage and sewer systems, rock slope protection, landscaping, retaining wall, striping, signalization, SWPPP, traffic control, and safety. He was also responsible for ensuring ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, surface of the roadway in front of the curb ramp, detectable warning surface width, depth, and conforming sidewalk slopes. He ensured curb ramp surface finish, obstructions, condition of the existing sidewalk and retaining curb backfill, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection.** Project Cost: \$27 Million.

Riverside County Transportation District, Clay Street Grade Separation, Jurupa Hills, CA

Lead Inspector. Lawrence provided construction inspection services for the \$17 million Clay Street Grade Separation project, involving the construction of a grade separation for the existing at-grade crossing of Clay Street and the Union Pacific Railroad (UPRR). Clay Street consists of two 12-foot-wide lanes of travel in each direction, with a 16-foot-wide striped median and is classified by the County of Riverside as a Major Highway that connects Van Buren Boulevard and Limonite Avenue. Lawrence provided construction inspection services for the \$17 million Clay Street Grade Separation project, involving the construction of a grade separation and rebuilding Clay Street roadway, sidewalks, curb and gutter, ADA curb ramps. **Lawrence ensured ADA compliance, verified various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, surface of the roadway in front of the curb ramp, detectable warning surface width, depth, and material compliance, conforming sidewalk slopes, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, condition of the existing sidewalk and retaining curb backfill, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection. In addition, he was responsible for inspection of grade checking, concrete pavement, V-gutter, AC pavement sidewalk, drainage and sewer systems, striping, signalization, SWPPP, traffic control, and safety.** Project Cost: \$17 Million.

Riverside County Transportation District, I-15 / Clinton Keith Road, Wildomar, CA

Lead Inspector. Lawrence was responsible for inspection roadway widening, utility relocation and coordination between contractors and utility companies. **Responsibilities included RHMA / JPCP / HMA, grade checking, concrete pavement, sidewalk, curb & gutter, curb ramp, V-gutter, drainage and sewer systems, grouted rock blanket, landscaping, retaining wall, striping, signalization, SWPPP, traffic control, and safety. Lawrence was also responsible for ADA compliance, verifying ramp width, surface of the roadway in front of the curb ramp, surface width, depth, material and various slopes compliance and Pedestrian Push Button height and wheelchair accessibility.** Project Cost: \$18 Million.



CESAR CERDA

Construction Inspector / Electrical Inspector

CERTIFICATIONS

IBEW Local Union 11
CalOSHA 10-Hour
Certification
Traffic Signal and Street
Lighting
Journeyman – Electrical
Training Trust
National Electrical Code –
Electrical Training Trust
Conduit Bending – Electrical
Training Trust
Storm Water Pollution
Prevention Training
Safety Course. C3
Competent Person,
Excavations, course. G2
Cal/OSHA Heat Illness
Prevention. C3 Competent
Person, Fall Protection

YEARS OF EXPERIENCE

32 Years

AREAS OF EXPERTISE

- 32 Years of Inspection
Experience
- Roadway, Highway,
Interchanges
Experience

Mr. Cerda has more than 32 years of construction experience and is cross-trained in Civil and Electrical inspection work. He has worked as an assistant resident engineer, construction lead inspector, and General Superintendent for several large construction companies specializing in various fields including but not limited to highway widening and improvements, local street improvements, bridge widening and reconstruction, transmission pipeline construction and relocation, waste water treatment facilities, commercial construction, and development construction. **Cesar is experienced with ensuring ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, surface of the roadway in front of the curb ramp, detectable warning surface width, depth, and material compliance, conforming sidewalk slopes, curb ramp surface finish, obstructions, condition of the existing sidewalk and retaining curb backfill, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection.**

In addition, Cesar is responsible for RHMA, HMA and JPCP pavements, curb, gutters, sidewalk, grade checking, concrete pavement, curb ramp, V-gutter, drainage and sewer systems, grouted rock strip, landscaping, retaining wall, striping, signalization, video cameras, SWPPP, traffic control, and safety. His field inspection experience also includes street lights, excavation, subgrades preparation, culverts, retaining walls, soil nail walls, sound walls, and concrete pour. He is experienced with traffic control system compliance, assistant the resident engineer by preparing CCO and force account analysis.

Cesar's responsibilities include construction inspection and Quality Control, daily reports and quantities take-offs, review and monitor schedule of work, compliance with plans and specifications and certificates, shop drawings, change orders, submittals and RFI's, safety compliance, preparing and reviewing as-built plans, and preparing final punch list. His duties include verifying that contractors and sub-contractors work is in compliance with Standard Specifications and Special Provisions.

Cesar has extensive knowledge and experience verifying electrical work is in compliance with local codes and NEC, NESC and ANSI standards. He has the ability to interpret contract specifications and has extensive knowledge of the Caltrans Standard Plans and Specifications, Caltrans Construction Manual, OSHA Manual, MUTCD, Traffic Control Manual, and Green Book.

RELEVANT EXPERIENCE

City of Whittier, Nelles at the Grove in Whittier (WUA18-027), Whittier, CA

Field Inspector. The project includes demolition of the 68 buildings and new construction of 561 homes, 189 apartments and 150,000 square feet of retail and restaurant space. Four historic buildings will be preserved. Project also includes for new neighborhood parks and open space, as well as the restoration and reuse of four buildings from the 1920s and 1930s as part of the commercial and residential areas. Responsibilities include field inspection of electrical, dry utilities, concrete structure, structural pavement, landscaping, irrigation, asphalt concrete, grading, traffic signals, street lights, water systems, sewer systems and traffic control, concrete drainage pools and overseeing testing. **He was responsible traffic control, safety, asphalt concrete pavement, sidewalk, curb & gutter, curb ramp, drainage and sewer systems, grouted rock strip, landscaping, retaining wall, striping, signalization, SWPPP, and public relations.** Project Cost: \$42 Million.



City of Rialto, CDRE Holdings 11, LLC, PPD 2018-0021, Rialto, CA

Field Inspector responsible for construction inspection services for a 99,999 square foot industrial warehouse building and associated street paving, drainage, lighting, fencing, and landscaping. **Cesar is responsible for grade checking, inspection of HMA pavement, removal and resurfacing, construction of concrete pavement, sidewalk, curb, curb & gutter, curb ramp, V-gutter, drainage and sewer system, grouted rock strip, landscaping, retaining wall, striping and verification of SWPPP implementation, traffic control, and safety. He is responsible for ADA compliance, verifying various type ADA ramp compliance with ADA standards.**

City of Rialto, Oakmont Development, Rialto, CA

Field Inspector for the Oakmont Industry Group's 156,500 square foot industrial warehouse building and associated street, sidewalk, paving, drainage, lighting, fencing, and landscaping work services on 8.01 gross acres of land located at the northwest corner of Base Line Road and Tamarind Avenue. Responsibilities includes roadway embankments, grade checking using survey stakes, hot mixed asphalt (HMA), PCC paving, drainage structures, slope paving; MBGR installation, drainage and sewer system, landscaping, retaining wall, striping and verification of SWPPP implementation. and various other items. Responsible for inspection of **asphalt concrete pavement grade checking, concrete sidewalk, curb, curb & gutter, curb ramp, V-gutter, traffic control, and safety. Cesar ensures ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, surface of the roadway in front of the curb ramp, detectable warning surface width, depth, and material compliance, conforming sidewalk slopes, curb ramp surface finish, obstructions, condition of the existing sidewalk and retaining curb backfill, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection.**

Ontario International Airport Authority (OIAA), On-Call Construction Management, Ontario, CA

Field Engineer / Construction Inspector. Ontario International Airport (ONT) is a medium hub airport serving about four million passengers per year and is a major air-cargo facility in Southern California. The project requires construction management and related inspection services on a regular basis to ensure OIAA projects and various tenant projects are completed according to their design and construction specifications. The project includes removing 52 acres of parking lot located at the northwest quadrant of the airport land side. Responsible for inspection of asphalt, fencing and electrical appurtenances; stock piling AC and concrete removals; realigned vehicle service road (VSR) in two phases. **Responsible also for the new roadway, placing base material, placing HMA and repaving part of existing VSR with AC overlays. Placing BMP's before, during and after completion to the satisfaction of the SWPPP.** Project Cost: Various.

Caltrans District 8, On-Call Construction Inspection (08A2586), Riverside County, CA

Assistant Resident Engineer / Construction & Electrical work Inspector. Project consists of 38 miles from the San Diego County border to one-mile North of the SR-91 Interchange. **Responsibilities include inspection of roadway excavation, grade checking, concrete and asphalt pavement, cold plane and resurfacing with RHMA, verification of compliance testing, drainage, grouted rock strip, landscaping, striping, signalization, SWPPP, traffic control, and safety.** Work also includes coordination with contractor on all closures, traffic control, and all safety aspects. Project Cost: \$10 Million.

City of South Gate, 3069 Highway Safety Improvements, South Gate, CA

Assistant Resident Engineer / Electrical Inspector for this Citywide project in which he is inspecting 10 new traffic signal intersections that includes new sidewalk ADA handicap ramps, traffic signalization and synchronization, street lighting, under conduit placement, cross gutter and spandrel improvements, cold planning and RHMA paving, striping, local business driveways and sidewalks, raised median island with planting and irrigations. **He was responsible for ensuring ADA compliance including, but not limited to verification of ramp width, detectable warning surface width, depth, and material compliance, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, conforming sidewalk slopes, curb ramp surface finish, obstructions, surface of the roadway in front of the curb ramp, condition of the existing sidewalk and retaining curb backfill, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection. Cesar was responsible for ARAM / JPCP / HMA / RSC, curbs & gutters, sidewalk, grade checking, concrete pavement, and safety.** Project Cost: \$4 Million.



ASGHAR “OSCAR” EFTEKHARI

Construction Inspector

EDUCATION

BS, Civil Engineering
University of Colorado,
Boulder, OC

YEARS OF EXPERIENCE

30 Years

AREAS OF EXPERTISE

- 30 Years of Construction Inspection Experience
- Roadway, Highway, Interchanges & Grade Separation Experience
- Pavement Management and Reconstruction

Mr. Eftekhari has more than 30 years of experience in construction inspection of roadways and highways. **His field inspection experience includes excavation inspection, grade checking, Hot Mix Asphalt (HMA), concrete pavement, material sampling and testing. His areas of expertise include JPCP / HMA/ RSC / cold foam in place recycled paving, curb and gutter, sidewalk, dike, pile driving, SWPPP/WPC, and CIDH foundation.** He is skilled in project and document control and has maintained records per the Caltrans 63 Filing Categories. **He is responsible for scheduling, coordinating, facilitating and documenting various meetings with stakeholders, public officials, contractors and affected third party or businesses, utility companies and local agencies. Oscar has verified numerous ADA ramp construction compliance which entailed verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, surface of the roadway in front of the curb ramp, conforming sidewalk slopes, curb ramp surface finish, obstructions, condition of the existing sidewalk and retaining curb backfill, detectable warning surface width, depth, and material compliance, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection.**

Oscar's duties included scheduling programs, preparing reports and estimates, analyzing costs and claims, maintaining project documentation, evaluating sites, performing traffic control, and negotiating with contractors. His responsibilities include construction inspection and Quality Control, daily reports and quantities take-offs, review and monitor schedule of work, compliance with plans and specifications and certificates, shop drawings, change orders, submittals and RFI's, safety compliance, preparing and reviewing as-built plans, and preparing final punch list. Oscar attends pre-construction and weekly construction meetings. **He has extensive knowledge of the Caltrans Standard Plans and Specifications, Caltrans Construction Manual, Traffic Control Manual, City Building Codes, SWPPP (California General Permit), Green Book, Structure Construction Manual, OSHA Safety Manual, and Caltrans Safety Manual. He is also knowledgeable in various industry codes, standards and specifications including ACI, AISC, USACE and AASHTO.**

RELEVANT EXPERIENCE

Caltrans District 8, I-10 Slab Replacement, Yucaipa, CA

Assistant Resident Engineer responsible for the I-10 Slab Replacement in San Bernardino County in Yucaipa from Live Oak Canyon Road to County Road Undercrossing Pavement Rehabilitation, Continuously Reinforced Concrete Pavement, and individual slab replacement, continuous slab replacement JPCP, grind and paving HMA and RHMA, MBGR, roadway excavation and drainage. Oscar is expert in Caltrans standard specifications, traffic manual, construction manual and AC & PCC compliance testing. Project Cost: \$33 Million.

Caltrans District 8, I-10 Slab Replacement, Redlands, CA

Assistant Resident Engineer responsible for the I-10 Slab Replacement in Redlands from Ford Street Undercrossing to Live Oak Canyon Road Overcrossing. **The project includes replacing existing (PCCP) with (RSCP) and removal of existing concrete slabs and placing JPCP and removal and replacement of AC paving, placing MBGR and Vegetation Control.** Responsibilities included verification of compliance testing, surface smoothness, quantity take off, weekly statement of working days and processing monthly progress payment. Cost: \$33 Million.



Caltrans District 8, SR-79 Drainage Inlet Installation, Beaumont, CA

Assistant Resident Engineer responsible for SR-79 Drainage Inlet Installation in Riverside County in Beaumont at various locations from Gilman Spring Road to First Street. **Responsible for excavation inspection, grade checking, Hot Mix Asphalt (HMA), concrete pavement, material sampling and testing. His areas of expertise include JPCP / HMA/ RSC / cold foam in place recycled paving, curb and gutter, sidewalk, ADA curb ramps, dike, pile driving, SWPPP/WPC, and CIDH foundation.** Project included structure excavation (Culverts) backfill, alternative pipe culvert installations, steel flared end section, rock slope protection. Oscar was responsible for ensuring ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, conforming sidewalk slopes, curb ramp surface finish, obstructions, surface of the roadway in front of the curb ramp, condition of the existing sidewalk and retaining curb backfill, detectable warning surface width, depth, and material compliance, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection. Project Cost: \$830,000.

Caltrans District 8, I-215 Widening and HOV Lane, San Bernardino and Riverside County, CA

Assistant Resident Engineer responsible for I-215 Widening and HOV Lane from 60 / 91 / 215 Separation to Orange Show Road, Construction Retaining Walls, Bridges and Widen Roadway with HMA. **Responsible for inspecting and preparing quantity for monthly progress estimate for construction area signs, clearing and grubbing, traffic control system, roadway excavation, remove and place traffic stripe, drainage (removal and placement different types of inlets and pipes, concrete channel lining), SWPPP, MBGR, concrete barrier, HMA paving and AC dike, JPCP pavement, sidewalk and curb ramps.** He ensured ADA standards of ramp width, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, surface of the roadway in front of the curb ramp, conforming sidewalk slopes, curb ramp surface finish, longitudinal and cross slope, obstructions, condition of the existing sidewalk and retaining curb backfill, detectable warning surface width, depth, and material compliance, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection. Project Cost: \$160 Million.

Caltrans District 8, SR-210 & SR-215, San Bernardino, CA

Assistant Resident Engineer responsible for SR-210 from 0.9 KM west to 0.5 KM east of SR-210 / SR-215 Separation and on SR-215 from 0.2 KM south of Massachusetts Avenue Overcrossing to University Parkway Undercrossing. Responsible for drainage items work consist of remove inlet, remove headwall, remove pipe, remove box culvert placing APC and RCP, box culvert, headwall, various types of inlets, GLD. **Responsible for excavation inspection, grade checking, Hot Mix Asphalt (HMA), concrete pavement, material sampling and testing. His areas of expertise include JPCP / HMA/ RSC / cold foam in place recycled paving, curb and gutter, sidewalk, dike, pile driving, SWPPP/WPC, and CIDH foundation.** Oscar ensures ADA compliance which entails verifying various type ADA ramp compliance with ADA standards including, but not limited to verification of ramp width, longitudinal and cross slope, flare slopes, gutter slopes, road surface slope and condition, landing slopes and dimensions, surface of the roadway in front of the curb ramp, conforming sidewalk slopes, curb ramp surface finish, obstructions, condition of the existing sidewalk and retaining curb backfill, detectable warning surface width, depth, and material compliance, and Pedestrian Push Button height and wheelchair accessibility at a signalized intersection. Also responsible for curb and gutter, sidewalk, driveways, curb ramps. Worked on various concrete barrier placements, MBGR and SWPPP. Project Cost: \$110 Million.

Caltrans District 8, SR-38 Place Centerline and Shoulder Rumble Strips, Yucaipa, CA

Assistant Resident Engineer responsible for SR-38 Place Centerline and Shoulder Rumble Strips in San Bernardino County in Yucaipa from Bryant Street to Valley of the Falls Drive. **Responsible for construction area signs, AC removal and rumble strips installation and striping operations.** Project Cost: \$270,000.

Caltrans District 8, SR- 243 Place Centerline Rumble Strips, Idyllwild, CA

Assistant Resident Engineer responsible for SR- 243 Place Centerline Rumble Strips in Riverside County near Mountain Center and Idyllwild. **Responsible for construction area signs, AC removal and rumble strips installation and striping operations.** Project Cost: \$760,000.



FRED ALIPANAH, PE

Resident Engineer / QA/QC – Part Time

EDUCATION

BS, Civil Engineering,
University of Maryland
Port & Harbor Engineering,
Post Graduate Study, Tokyo,
Japan

LICENSE

CA, Professional Civil
Engineer, No. C64521

CERTIFICATIONS

Caltrans District 8, Resident
Engineer Certificate
Caltrans Headquarters,
Resident Engineer Certificate

Mr. Alipanah has more than 30 years of experience in project and construction management, structural and civil engineering and construction inspection. Fred worked for Caltrans District 7 and 8 for over 20 years. He is a highly regarded team leader, bringing together members of various levels of government, agencies, contractors, consultants and constituents to develop cordial relationships to bring projects to an on-time, at budget conclusion. He has the ability to work with diverse communities to ensure a project is efficiently executed from well-developed plans. He is an excellent communicator and highly respected for his technical competence and effective project execution. Fred is assigned to high-profile projects on which he administered the contract, supervised contractors and construction teams, responded to requests for information (RFIs), processed contract change orders, and performed cost estimating. He has been responsible for project coordination between owners, designers, contractors, subcontractors, suppliers and local agencies. His responsibilities have included developing workplans with project management software P3, project resourcing and updating schedules, HMA inspection and concrete inspection. His responsibilities include traffic control; drainage, water, sewer and utility inspection.

Fred is experienced with writing change orders, reviewing extra work bills, responding to RFI and NOPC's. In addition, he reviews claims, quantity take off, and processes monthly estimate. Fred reviews and analyzes critical path method (CPM) schedules, monitored safety and quality assurance programs, and provided claims resolution services. Additionally, he worked on the Atlantic City Airport Runway and provided design and capacity calculation services. He has also worked on various onshore and offshore projects. Fred is knowledgeable of the Greenbook Standard Specifications for Public Works Construction, Standard Plans for Public Works Construction, Cal/OSHA Construction Safety Orders, Caltrans Standard Specifications and Standard Plans. Other inspection related duties included quantity tracking; pay estimate processing; writing daily and weekly progress reports; schedule review; monitoring Storm Water Pollution Prevention Plans; as-built drawing maintenance; construction material purchasing; claims avoidance/analysis; punch list monitoring; project close-out; surveying; and estimating.

RELEVANT EXPERIENCE

Ontario International Airport, On-Call Construction Management and Related Services, Ontario, CA

Project Manager responsible for coordinating construction activities for various projects, including but not limited to FedEx Building, commercial buildings, roadway widening and paving (HMA, PCCP), utility coordination and relocation, drainage systems, sewer, SWPPP, electrical, grading new ramps, frontage roads, traffic control and safety inspection reviews with daily documentation of compliance in accordance with plans and specifications. Project Cost: Various.

Caltrans District 8, Route 215 / Barton Road Bridge Replacement Project, Grand Terrace, CA

Resident Engineer. Project consisted of replacing Barton Road Bridge, Ramp Improvement/Relocation, Construction of Retaining Walls, Sound Walls, Drainage and Sewer Systems, City Street Improvements and new Signalized Intersections. His work included Contract Administration, Construction Inspection, Staff Supervision and Training, reviewing and responding to Submittals and RFI's, negotiating and writing Change Orders, maintaining Project Budget and Schedule, coordination and meetings with Utility Companies, producing the Monthly Progress Estimate, attending DRB and Partnering meetings, coordination with local agencies, San Bernardino County Transportation Authorities, attending Town Hall meetings, local school meetings. Project Cost: \$47.4 Million.



Caltrans District 8, Route 10 Slab Replacement Project, Various Cities in San Bernardino County, CA

Resident Engineer. This Project was on Route 10, over a stretch of 30 miles between the Los Angeles County Line and 38/10 Separation. The Project consisted of replacing more than 10,000 Concrete Slabs, Cold Plane Shoulders and Ramps, Paving with RHMA, replacing Guard Rails, Smoothness Grinding of Concrete Pavement and Electrical work on Route 10. Duties included Contract Administration, Staff Supervision and Training, determination of the Slabs to be replaced, reviewing and responding to Submittals and RFI's, negotiating and writing Change Orders, maintaining Project Budget and Schedule, producing Monthly Progress Estimate, attending DRB and Partnering meetings and responding to Contractor's claims. In addition to nightly closures on this project, there was also a 55-hour weekend closure for which he ensured provision for public safety and traffic flows to remained within expectation. Arranged for radio advertisement and public outreach. Project Cost: \$38 Million.

Caltrans District 8, Route 15 Rehabilitation Project, San Bernardino County, CA

Resident Engineer. This Project was on Route 15, Between 7th Street and Sierra, a stretch of 9 miles in San Bernardino County. The Project consisted of adding 36 lane miles of concrete pavement in the median and replacing more than 36 miles of existing concrete lanes. The project included 3 stages to complete the work. Stage 1, construction consisted of random slab replacement and grind existing lane 1 and 2. In Stage 2, the construction included excavation, drainage work, concrete paving and barrier work in the median, Stage 3 involved and replacement of concrete pavement in the outer two lanes, Drainage and Barrier work, Electrical work and Guard Rails work. Duties included Contract Administration, Staff Supervision and Training, Planning for weekend work, reviewing and responding to Submittals and RFI's, negotiating and writing Change Orders, maintaining Project Budget and Schedule, producing Monthly Progress Estimate, attending DRB and Partnering meetings and responding to Contractor's claims. In addition to two 10-hour work shift, day and night, there were 26 55-hour weekend closures for which he ensured provision for public safety, traffic flows to remain within expectation, arranged for radio advertisement and public outreach. Project Cost: \$84 Million.

Caltrans District 8, Route 10 Rehabilitation, Coachella, CA

Resident Engineer. This project consisted of construction of individual slab replacement, cold plane and pave HMA shoulder, remove and reconstruct existing shoulder, Jointed Plane Concrete Pavement, Ramp Termini and remove and replace AC dike. Duties included Contract Administration, Inspection staff supervision, reviewing and responding to Submittals and RFI's, negotiating and writing Change Orders, maintaining Project Budget and Schedule, producing Monthly Progress Estimate. Project Cost: \$3.9 Million.

Caltrans District 8, Route 111 Rehabilitation Project, Riverside County, CA

Resident Engineer. This project consisted of Cold in-place Recycling and Cold Plane and Pave with HMA (Type C). Duties included Contract Administration, directing inspection staff, reviewing and responding to Submittals and RFI's, negotiating and writing Change Orders, maintaining Project Budget and Schedule, producing Monthly Progress Estimate, Project Cost: \$1.1 Million.

Caltrans District 8, San Bernardino County, CA

Caltrans Inspector on various improvement, rehabilitation and emergency projects throughout Riverside and San Bernardino Counties on I-10, I-15, State Routes 38, 330, 18, and 60.

Caltrans District 7, Los Angeles, CA

Caltrans Assistant Project Manager for various Caltrans District 7 improvement, rehabilitation and emergency projects on State Routes 710, 405 and Schuyler Heim Bridge.

South Jersey Transportation Authority, Atlantic City Airport Runway Design, Pomona, NJ

Assistant Project Engineer. Responsible for runway design and capacity calculations services.



NICOLE SALEM

Office Engineer / Labor Compliance – Part Time

EDUCATION

MBA, Business
Administration University of
Phoenix

BA, Public Relations:
Communications, California
State University, Fullerton

YEARS OF EXPERIENCE

14 Years

Nicole Salem has 14 years of experience in the construction and engineering industries, with expertise in contract administration, labor relations and general administration relating to office engineer work. Working extensively with Caltrans, Nicole has been responsible for office engineering, labor compliance and public outreach. She is skilled in project and document control and has maintained records per the Caltrans 63 Filing Categories. She is responsible for scheduling, coordinating, facilitating and documenting various meetings with stakeholders, public officials, contractors and affected third party or businesses, utility companies and local agencies.

As an Office Engineer, she coordinates work activities through the resident engineer, inspectors, contractors and suppliers to confirm minimal contract disruption and impacts of contract compliance work. Nicole also assists with the processing of change orders and is cognizant of details to avoid potential audits. Her well-organized filing and documentation contribute to a streamlined project closeout.

As a Labor Compliance Officer, Nicole analyzed certified payrolls and fringe benefit statements, conducted contractor audits, conducted employee interviews to verify prevailing wages. Nicole evaluated adherence to applicable provisions of state labor laws; met with employers, employees and their representatives to explain labor code sections; and verified required wage adjustments were made. **Nicole researches, analyzes and interprets laws and regulations on behalf of resident engineers or contractors, enabling them to address contractual questions and issues in relation to labor compliance and equal employment opportunity requirements.** Nicole also enforces the new laws of SB854 and DIR monitoring. Nicole communicates effectively with agencies, unions or the Center for Contract Compliance regarding Public Record Request.

RELEVANT EXPERIENCE

County of Los Angeles Department of Public Works, As-Needed Labor Compliance Consultant Services, Los Angeles, CA

Labor Compliance Officer. Nicole analyzed certified payrolls and fringe benefit statements, conducted audits on contractors and interviewed employees to verify prevailing wages. Nicole evaluated adherence to applicable provisions of state labor laws; met with employers, employees and their representatives to explain labor code sections; and verified required wage adjustments were made. She researches, analyzes and interprets laws and regulations on behalf of resident engineers or contractors, enabling them to address contractual questions and issues in relation to labor compliance and equal employment opportunity requirements. She has experience with all types of funding, including Prop 84, CDBG, ARRA, State and more. Nicole also enforces the new laws of SB854 and DIR monitoring. Nicole has extensive experience working with LCP Tracker software. She was also in charge of writing source document review manual for Caltrans. *Project Cost: Various.*

Caltrans District 7, Various Projects On-Call A&E Projects, Santa Fe Springs, CA

Office Engineer. Nicole is the Office Engineer for the Caltrans I-5 at Rosecrans project and several other projects for District 7. Her responsibilities include maintaining the Caltrans 63 categories filing system. She also collects and reviews extra work bills for payment and processing. Other duties include tracking and logging all submittals, RFIs, survey requests and material testing logs for the project. She is also responsible for inputting closures into the Lane Closure System. *Project Cost: Various.*



City of Carson, SR-405 / Wilmington Avenue Interchange Modification, Carson, California

Office Engineer / Labor Compliance. Nicole is responsible for project documentation including processing RFIs, CCOs, correspondence and pay estimates. Nicole also attends progress meetings and produces meeting minutes. Her main task is to confirm complete, accurate and timely contract records, pertaining to construction progress, job expenditures and budget programs in accordance with State and Federal regulations and laws. The Caltrans filing methodology of 63 categories is followed on this project. Nicole also monitors labor compliance on the project, tracking federal reimbursement due to apprentice usage, and assists the Resident Engineer in preparing Contract Change Orders or necessary data for the purpose of making alterations, deviations, additions or deletions from the Contract Plans and Specifications. She prepares and updates spreadsheets to track CCO balances. *Project Cost: \$23 million.*

Caltrans District 8, SR-215 / Barton Road Bridge Replacement, San Bernardino, CA

Office Engineer responsible for maintaining the Caltrans 63 categories filing system. She also collects and reviews extra work bills for payment and processing. Other duties include tracking and logging all Submittals, RFIs, Survey Requests and Material Testing logs for the project. She is also responsible for inputting closures into the Lane Closure System. Nicole assists the Resident Engineer with preparing and processing Contract Change Orders. Nicole also makes sure all inspector dailies and Weekly Status Sheets are sent to the Labor Compliance Department. She also tracks COZEEP for the project and ensures all tickets are sent to the appropriate Department. *Project Cost: \$47.4 Million.*

Riverside County Transportation Department, Clinton Keith Road Interchange, Wildomar, California

Office Engineer/Labor Compliance. Nicole provided construction management and constructability review services to the Riverside County Transportation Department (RCTD) for improvements to the Clinton Keith Road interchange with Interstate 15. Nicole served as the Office Engineer on the project. The project involved widening both Clinton Keith Road and Interstate 15 at the busy interchange. Nicole maintained the project files for the project, keeping them in accordance with the Caltrans 63 Categories. She maintained submittal, RFI and material testing logs for the project. She attended weekly meetings and distributed minutes accordingly. *Project Cost: \$18.6 Million.*

Riverside County Transportation Department, Clay Street Grade Separation, Jurupa Hills, Carson, CA

Office Engineer / Labor Compliance Officer. Nicole was the Office Engineer and Labor Compliance Officer for the Clay Street Grade Separation project. Her duties included notifying contractors of outstanding items, distributing meeting minutes, maintaining project files and categorizing documents appropriately. She also scheduled material testing and surveying requests, maintained logs for submittals, correspondence, RFIs, surveys, CCOs and material testing. Other duties included reviewing extra work bills for payment, finalizing CCOs and confirming the contractor was abiding by State and Federal prevailing wage laws. Nicole was responsible for the estimate being checked and processed for payment monthly as well. *Project Cost: \$17 Million.*

Caltrans District 7, I-5 / Rosecrans Bridge Replacement, Santa Fe Springs, CA

Labor Compliance Officer / Office Engineer for the Caltrans I-5 at Rosecrans project and several other projects for District 7. Her responsibilities include maintaining the Caltrans 63 categories filing system. She also collects and reviews extra work bills for payment and processing. Other duties include tracking and logging all Submittals, RFIs, Survey Requests and Material Testing logs for the project. She is also responsible for inputting and reviewing closures into the Lane Closure System. Nicole assists the Resident Engineer with preparing and processing Contract Change Orders. Nicole also collects and verifies quantity sheets each month to process the Pay Estimate. Estimate Summary Sheets are also produced and filed. She used CAMS, an electronic estimate program to process projects estimates. Nicole also verifies that prevailing wages are being paid on the job. Employee Interviews at the jobsite are also conducted. She completes Weekly Status and submits them along with diaries to Labor Compliance. She also coordinates Survey Requests and Material Testing Requests. Nicole also monitors SWPPP, DBE and EEO reporting. Nicole assists in the Monthly Caltrans Reporting Reports. *Project Cost: \$17 Million.*

September 27, 2019
Proposal No. 04-02546

Mr. Michael Tahan
PPM Group, Inc.
7950 Cherry Avenue
Suite 103
Fontana, California 92336

Subject: Proposal for Geotechnical and Materials Testing Services
 Etiwanda Corridor Improvements Project
 Rialto, California

Dear Mr. Tahan:

Ninyo & Moore is pleased to submit this proposal for geotechnical and materials testing services during construction of the Etiwanda Corridor Improvements Project in Rialto, California. Based on our discussions with you and our review of the project plans and specifications, we understand that project includes various improvements to Etiwanda Avenue, Baseline Road, Pepper Avenue and Maple Avenue. The estimated quantities of materials that may involve our services include 60 concrete curb ramps, 550 linear feet (LF) of concrete curb and gutter, 8,000 square feet (SF) of concrete cross gutter, 6,750 SF of full depth asphalt concrete (AC), 1,550 SF of AC overlay, 4,950 SF of new sidewalk, and 720 LF of retaining curb.

SCOPE OF SERVICES

Based on our conversations with you, 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 observation and testing during subgrade preparation, trench backfill, structure backfill, aggregate base placement, and during AC pavement placement. Field density testing will be performed to evaluate the Contractor's compaction operation.
- Provide timely and accurate reports of all testing and inspections.

- Laboratory testing including Proctor density, sieve analysis, sand equivalent, durability index, R-value, compression testing of concrete cylinders, Hveem stability/unit weight, and extraction/gradation on representative samples obtained in the field.

ASSUMPTIONS

Based on the construction schedule described above and our project understanding, the following assumptions have been made in the preparation of our scope of services:

- Our services will be coordinated and scheduled as requested by our client or client's authorized representative.
- Our services are subject to prevailing wage requirements.
- Sampling and testing of concrete will not be requested.
- Preparation of a Final Compaction report will not be requested.
- Structural inspections will be provided by others.
- Our estimated fee does not include stand-by time or costs associated with retesting or re-inspecting 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.

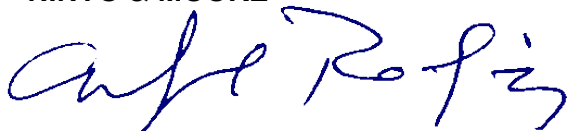
ESTIMATED FEE

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 provide services on this project and we look forward to working with you.

Respectfully submitted,

NINYO & MOORE



Alfred "Tino" Rodriguez
Principal, Construction Services

AR/rad

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**Field Services**

Field Technician - Subgrade, Aggregate Base and AC	64 hours	@ \$ 92.00 /hour	\$ 5,888.00
Field Vehicle and Equipment Usage	64 hours	@ \$ 12.00 /hour	\$ 768.00
Subtotal			\$ 6,656.00

Laboratory Analyses

Proctor Density, ASTM D 1557	5 tests	@ \$ 200.00 /test	\$ 1,000.00
Sieve Analysis	4 tests	@ \$ 130.00 /test	\$ 520.00
Sand Equivalent	2 tests	@ \$ 110.00 /test	\$ 220.00
AC Hveem Stability and Unit Weight	2 tests	@ \$ 215.00 /test	\$ 430.00
AC Extraction, % Asphalt, Including Gradation	2 tests	@ \$ 240.00 /test	\$ 480.00
Subtotal			\$ 2,650.00

Project Coordination and Technical Support

Principal Engineer/Geologist/Environmental Scientist	1 hour	@ \$ 178.00 /hour	\$ 178.00
Senior Project Engineer/Geologist/Environmental Scientist	8 hours	@ \$ 163.00 /hour	\$ 1,304.00
Subtotal			\$ 1,482.00

TOTAL ESTIMATED FEE			\$ 10,788.00
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Schedule of Fees

Hourly Charges for Personnel

Principal Engineer/Geologist/Environmental Scientist	\$ 178
Senior Engineer/Geologist/Environmental Scientist	\$ 168
Senior Project Engineer/Geologist/Environmental Scientist	\$ 163
Project Engineer/Geologist/Environmental Scientist	\$ 156
Senior Staff Engineer/Geologist/Environmental Scientist	\$ 142
Staff Engineer/Geologist/Environmental Scientist	\$ 126
GIS Analyst	\$ 116
Field Operations Manager	\$ 112
Supervisory Technician*	\$ 98
Nondestructive Examination Technician*, UT, MT, LP	\$ 98
ACI Concrete Technician*	\$ 98
Concrete/Asphalt Batch Plant Inspector*	\$ 98
Special Inspector (Concrete, Masonry, Steel, Welding, and Fireproofing)*	\$ 98
Senior Field/Laboratory Technician*	\$ 92
Field/Laboratory Technician*	\$ 92
Technical Illustrator/CAD Operator	\$ 92
Information Specialist	\$ 78
Geotechnical/Environmental/Laboratory Assistant	\$ 76
Data Processing, Technical Editing, or Reproduction	\$ 68

Other Charges

Concrete Coring Equipment (includes one technician)	\$ 180/hr
PID/FID Usage	\$ 140/day
Anchor load test equipment (includes technician)	\$ 97/hr
Hand Auger Equipment	\$ 65/day
Inclinometer Usage	\$ 40/hr
Vapor Emission Kits	\$ 40/kit
Level D Personal Protective Equipment (per person per day)	\$ 30/p/d
Rebar Locator (Pachometer)	\$ 30/hr
Nuclear Density Gauge Usage	\$ 15/hr
Field Vehicle Usage	\$ 12/hr
Direct Project Expenses	Cost plus 15 %

Laboratory testing, geophysical equipment, and other special equipment provided upon request.

Notes

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.

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.

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.

*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.

Schedule of Fees for Laboratory Testing

Laboratory Test, Test Designation, and Price Per Test

SOILS

Atterberg Limits, D 4318, CT 204	\$ 160
California Bearing Ratio (CBR), D 1883	\$ 485
Chloride and Sulfate Content, CT 417 & CT 422	\$ 175
Consolidation, D 2435, CT 219	\$ 300
Consolidation – Time Rate, D 2435, CT 219	\$ 75
Direct Shear – Remolded, D 3080	\$ 325
Direct Shear – Undisturbed, D 3080	\$ 275
Durability Index, CT 229	\$ 165
Expansion Index, D 4829, IBC 18-3	\$ 180
Expansion Potential (Method A), D 4546	\$ 160
Geofabric Tensile and Elongation Test, D 4632	\$ 180
Hydraulic Conductivity, D 5084	\$ 330
Hydrometer Analysis, D 422, 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	\$ 255
pH and Resistivity, CT 643	\$ 175
Proctor Density D 1557, D 698, CT 216, & AASHTO T-180 (Rock corrections add \$100)	\$ 200
R-value, D 2844, CT 301	\$ 295
Sand Equivalent, D 2419, CT 217	\$ 110
Sieve Analysis, D 422, CT 202	\$ 130
Sieve Analysis, 200 Wash, D 1140, CT 202	\$ 100
Specific Gravity, D 854	\$ 100
Thermal Resistivity (ASTM 5334, IEEE 442)	\$ 880
Triaxial Shear, C.D., D 4767, T 297	\$ 430
Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt	\$ 365
Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt	\$ 210
Triaxial Shear, U.U., D 2850	\$ 155
Unconfined Compression, D 2166, T 208	\$ 120
Wax Density, D 1188	\$ 100

MASONRY

Brick Absorption, 24-hour submersion, C 67	\$ 50
Brick Absorption, 5-hour boiling, C 67	\$ 60
Brick Absorption, 7-day, C 67	\$ 65
Brick Compression Test, C 67	\$ 50
Brick Efflorescence, C 67	\$ 50
Brick Modulus of Rupture, C 67	\$ 45
Brick Moisture as received, C 67	\$ 40
Brick Saturation Coefficient, C 67	\$ 55
Concrete Block Compression Test, 8x8x16, C 140	\$ 65
Concrete Block Conformance Package, C 90	\$ 485
Concrete Block Linear Shrinkage, C 426	\$ 135
Concrete Block Unit Weight and Absorption, C 140	\$ 60
Cores, Compression or Shear Bond, CA Code	\$ 60
Masonry Grout, 3x3x6 prism compression, C 39	\$ 35
Masonry Mortar, 2x4 cylinder compression, C 109	\$ 35
Masonry Prism, half size, compression, C 1019	\$ 120
Masonry Prism, Full size, compression, C 1019	\$ 185

REINFORCING AND STRUCTURAL STEEL

Chemical Analysis, A 36, A 615	\$ 135
Fireproofing Density Test, UBC 7-6	\$ 60
Hardness Test, Rockwell, A 370	\$ 70
High Strength Bolt, Nut & Washer Conformance, per assembly, A 325	\$ 130
Mechanically Spliced Reinforcing Tensile Test, ACI	\$ 150
Pre-Stress Strand (7 wire), A 416	\$ 170
Reinforcing Tensile or Bend up to No. 11, A 615 & A 706	\$ 55
Structural Steel Tensile Test: Up to 200,000 lbs. (machining extra), A 370	\$ 80
Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI	\$ 60

CONCRETE

Compression Tests, 6x12 Cylinder, C 39	\$ 25
Concrete Mix Design Review, Job Spec	\$ 155
Concrete Mix Design, per Trial Batch, 6 cylinder, ACI	\$ 825
Concrete Cores, Compression (excludes sampling), C 42	\$ 60
Drying Shrinkage, C 157	\$ 350
Flexural Test, C 78	\$ 65
Flexural Test, C 293	\$ 60
Flexural Test, CT 523	\$ 80
Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI	\$ 275
Jobsite Testing Laboratory	Quote
Lightweight Concrete Fill, Compression, C 495	\$ 45
Petrographic Analysis, C 856	\$ 1,900
Restrained Expansion of Shrinkage Compensation	\$ 270
Splitting Tensile Strength, C 496	\$ 90
3x6 Grout, (CLSM), C 39	\$ 45
2x2x2 Non-Shrink Grout, C 109	\$ 45

ASPHALT CONCRETE

Air Voids, T 269	\$ 50
Asphalt Mix Design, Caltrans (excl. Aggregate Quality)	\$ 2,800
Asphalt Mix Design Review, Job Spec	\$ 165
Dust Proportioning, CT LP-4	\$ 50
Extraction, % Asphalt, including Gradation, D 2172, CT 382	\$ 240
Film Stripping, CT 302	\$ 110
Hveem Stability and Unit Weight D 1560, T 246, CT 366	\$ 215
Marshall Stability, Flow and Unit Weight, T 245	\$ 240
Maximum Theoretical Unit Weight, D 2041, CT 309	\$ 150
Moisture Content, CT 370	\$ 85
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)	\$ 5,200
SuperPave, Gyration Unit Wt., T 312	\$ 75
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	\$ 50
Voids filled with Asphalt, (VFA) CT LP-3	\$ 50

AGGREGATES

Clay Lumps and Friable Particles, C 142	\$ 160
Cleaness Value, CT 227	\$ 160
Crushed Particles, CT 205	\$ 165
Durability, Coarse or Fine, CT 229	\$ 195
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	\$ 75
Organic Impurities, C 40	\$ 80
Potential Alkali Reactivity, Mortar Bar Method, Coarse, C 1260	\$ 950
Potential Alkali Reactivity, Mortar Bar Method, Fine, C 1260	\$ 1,250
Potential Reactivity of Aggregate (Chemical Method), C 289	\$ 450
Sand Equivalent, T 176, CT 217	\$ 110
Sieve Analysis, Coarse Aggregate, T 27, C 136	\$ 115
Sieve Analysis, Fine Aggregate (including wash), T 27, C 136	\$ 130
Sodium Sulfate Soundness, C 88	\$ 450
Specific Gravity and Absorption, Coarse, C 127, CT 206	\$ 100
Specific Gravity and Absorption, Fine, C 128, CT 207	\$ 160

ROOFING

Roofing Tile Absorption, (set of 5), C 67	\$ 210
Roofing Tile Strength Test, (set of 5), C 67	\$ 210

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.