ENGINEERING

WATER RESOURCES ENGINEERING CONSULTANT

CARLOS A. RAMIREZ, M.S.

EDUCATION:

M,S., Civil Engineering/California State University, Fullerton
B.S., Civil Engineering/California State University, Fullerton

LICENSES/REGISTRATIONS:

Engineering-In-Training (EIT) – CA

EXPERIENCE: Twenty-one (21) years of design experience in civil, water and wastewater engineering, research and development, and planning of public utility infrastructure. His emphasis has been in the design of Wastewater Lift Stations, Wastewater Treatment Plants, Sewer Force Mains, Sewer Gravity Mains, Storm Water Pump Stations, Domestic Water Booster Stations, Water Storage Resevoirs, Domestic Water Wells, Mechanical Components & Pumping Systems, Wastewater Collection System Condition Assessment and Rehabilitation, and Hydraulic and Computer Modeling. He has provided design, planning and construction management services for all type of water and wastewater facilities for clients in both the public and private sectors**.**

Platz Reservoir Domestic Water Main Replacement, Laguna Beach, CA: Senior Engineer responsible for the water main replacement design and preparation of construction plans and specifications for the Platz Reservoir Domestic Water Main Replacement for the Laguna Beach County Water District. The project involved preparing plans and specification for 960 lineal feet of 12 inch C900 PVC pipe along Phillips Road connecting to the existing Platz Reservoir. Project included the removal and disposal of an existing above ground 8" HDPE pipe.

Theo Lacy Facility Improvements, Industrial Size Garbage Grinders, Orange, CA: Senior Engineer responsible for the design of three (3) muffin monster grinder pump assemblies for the Orange County Sheriff Department. The project included two (2) 12-inch muffin monster grinder pumps assemblies and one (1) 8-inch muffin monster grinder pump assembly each placed in a separate below grade valve vault.

Clara Street Domestic Water Main Replacement, Cudahy, CA: Senior Engineer responsible for the water main replacement design and preparation of construction plans and specifications for the Clara Street Domestic Water Main Replacement for Tract 180 Water Company. The design included preparing construction plans and specification for the installation of 4,678 lineal feet of 8 inch C900 PVC pipe along Clara Street between Atlantic Ave and River Road and abandonment of existing 6 inch steel water main located outside of street right of way and relocation of existing water meters to be with in street right of way.

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Elizabeth Street Domestic Water Main Replacement, Cudahy, CA: Senior Engineer responsible for the water main replacement design and preparation of construction plans and specifications for the Elizabeth Street Domestic Water Main Replacement for Tract 180 Water Company. The design included preparing construction plans and specification for the installation of 4,673 lineal feet of 8 inch C900 PVC pipe along Elizabeth Street between Atlantic Ave and River Road and abandonment of existing 6 inch steel water main located outside of street right of way and relocation of existing water meters to be with in street right of way.

Florence Avenue Domestic Water Main Replacement, Bell, CA: Senior Engineer responsible for the engineering design of 16" ductile iron domestic water pipeline for Tract 180 Water Company. The project includes preparation of plans and specifications for the Florence Avenue Domestic Water Main Replacement project including civil and mechanical design, including close coordination with City staff.

Puente Hills Intermodal Facility Workman Mill Road Utility Improvements 48" Water Line Relocation, Puente Hills, CA: Senior Engineer responsible for the design and preparation of construction plans and specifications for the relocation of a 48" welded steel water main. The design consisted of the installation of 275 lineal feet of 48" welded steel pipe inside a 66" inside diameter steel casing length of 139' along Workman Mill Road in the City of Puente Hills, CA.

Waste Management Irvine Hauling Station, Irvine, CA: Senior Engineer for the design of two (2) sump pump vaults and seven (7) above ground water tanks for conveyance and detention of storm water runoff to meet onsite water quality objectives. The project included an 8-foot deep precast concrete manhole with dual submersible 450 gpm sump pumps, 6-inch PVC on-site piping connecting to the seven (7) HDPE poly process tanks 11'-11" diameter x 14'-2" tall each having a capacity of 10,300 gallons of wastewater storage connected in series, and a concrete tank farm pad.

Retail Zone 2011 Water System Improvements Domestic Water Main Replacemtne, East Orange County Water District, Orange, CA: Senior Engineer responsible for the design and preparation of construction plans and specifications for upgrading/replacement of 1,340 lineal feet of 12-inch steel pipe on Crawford Canyon Road and 400 lineal feet of 8-inch steel pipe on Barrett Lane. The project included the abandonment in place of existing water main, reconnecting of existing fire hydrants, in line valves, reconnect existing service laterals and coordination with the Orange County Fire Authority.

Yorba Linda Water District/City of Anaheim Interconnect, City of Placentia, CA: Senior Engineer for the design to upgrade domestic water interconnections between the City of Anaheim and the Yorba Linda Water District. Project included upgrading two existing 8-inch interconnections and the design of one new interconnection vault assembly. Responsibilities included the preparation of design drawing, project specifications and coordination with the City of Anaheim and the Yorba Linda Water District Representatives.

Fire Water Improvements for Fullerton College, Fullerton, CA: Engineer for design and construction plans and specifications of approximately 835 linear feet of 12-inch Ductile Iron Pipe, and 4,800 linear feet 8 to 10 inch PVC installed throught the College campus.

Marygold Mutual Water Company Booster Station, City of Bloomington, CA: Senior Engineer for the design of a domestic water booster station. It included three 1,000 gpm pumps with 50 hp motors. Responsibilities included the design of the booster station, prepatationf of construction plans and specifications and coordination with the electrical engineering sub-consultant.

Eastside Water Treatment Facility Phase 1- 890 Zone Booster Station, Ontario, CA: Senior Engineer responsible for the design of construction plans and specifications for a 890 zone booster station for the Lewis Management Corporation. The design included a block wall building, site piping and valving, site grading, three (3) 125 HP booster pumps, electrical room with ac unit and hoist monorail.

Eastside Water Treatment Facility Phase 2- 790 Zone Booster Station, Ontario, CA: Senior Engineer responsible for the design of construction plans and specifications for a 790 zone booster station for the Watson Land Company. The design included site piping and valving, three (3) 100 HP booster pumps installed inside the existing 890 booster building, electrical controls and hoist assembly.

Marygold Mutual Water Company 2,000 gpm IX Treatment for Perchlorate Removal, City of Bloomington, CA: Senior Engineer for the design of a 2,000 gpm IX Treatment plant for Percholorate Removal for Marygold Mutual Water Company. Responsibilities included the preparation of construction plans and specifications for a 2,000 gpm IX Treatment Plant for Perchlorate Removal. The project included the installation of a two Evoqua 12' diameter vessels, two UHF Towner cartridge horizontal filters, piping and appurtenances. Existing well no. 7 was re-piped to connect to the IX Treatment plan via a new 12" CML&C welded steel pipe approximately 210 lineal feet

Eastside Water Treatment Facility Phase 1 Ion Exchange Water Treatment Plant, Ontario, CA: Senior Engineer for the design of construction plans and specifications for the Ion Exchange Water Treatment Plant for Lewis Management Corporation to be operated by City of Chino staff. The facilities included developing domestic water demands, costs, facility phasing and design of 3,500 gpm ion exchange water treatment plant, booster pumps, transmission mains, brine disposal and ancillary systems for extremely impaired raw water sources.

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The Preserve City of Chino Sewer Lift Station, Chino, CA: Senior Engineer responsible for the design and preparation of construction plans and specifications for the construction of the Preserve City of Chino Sewer Lift Station Project. The design consisted of the installation of two (2) 85 hp submersible sewage pump assembly, 10" steel piping and valving, 400 Kw emergency generator assembly, a 2,000 gallon avobe ground diesel storage tank with fuel transfer pumps, electrical control assembly placed on a 16 foot tall concrete platform and all other appurtenances as required for a complete operable system. Wet well depth was about 40 feet with access ladders from ground to platform.

Blandwood Road and True Avenue Sewer Lift Station Replacement, City of Downey, CA: Senior Engineer responsible for the design of a 175 gpm sewer lift station. It included the demolition of two existing lift stations and gravity sewer piping. Responsibilities included the design of the mechanical portion of the project and coordination with a civil and electrical engineering sub-consultant and the City of Downey.

Puente Hills Intermodal Facility Workman Mill Road Grade Separation, La Puente, CA: Senior Engineer responsible for the storm water pump station engineering design and preparation of construction plans

and specifications for the Puente Hills Intermodal Facility Workman Mill Road Grade Separation Project in La Puente, CA. The project included a 7 cfs storm water pump station that was poured in place with manway access and ventillation. It included 3 main pumps and 2 sump pumps, 25 horsepower and 7.5 horsepower respectively.

City of Chino Hills' Pine Valley Estates, Chino Hills, CA: Senior Engineer for City of Chino Hills Pine Valley Estates Sewer Lift Station in Chino Hills, CA. This ongoing project included preparation of design plans and specifications for a 35 foot deep precast wet well and two submersible sewage pumps, piping, valving, metering, odor control, MCC, standby engine generator, electrical, telemetry and controls for a new development within the City. The total construction cost is $1.9 million.

City of Fullerton State College Grade Separation, Fullerton CA: Senior Engineer responsible for the storm water pump station engineering designs for the City of Fullerton State College Grade Separation Project. The project includes preparation of plans and specifications for the storm water pump station portion of the project including civil, mechanical, structural and electrical design. The project included submersible pumps and motors, an above grade electrical room and above grade back-up engine generator.

Lost Canyons 1537 Zone 0.58 MG Reservoir, Simi Valley, CA: Senior Engineer responsible for the design of construction plans and specifications for the City of Simi Valley Lost Canyons 1537 Zone 0.58 MG Reservoir. The project included a 12-inch diameter inlet and outlet piping, ring wall footing, spiral staircase, SCADA, electrical and instrumentation, cathodic protection and a 64-foot diameter x 26.5-foot-tall welded steel reservoir.

Gundry Reservoir Improvements 2015, Signal Hill, CA: Senior Engineer responsible for the design of construction plans and specifications for the improvements to the existing Gundry Reservoir. The improvements included the installation of a new meter and flow control valve in an underground vault, updrgrade to the reservoirs recirculation system, updgrades to the reservoirs mixing system and improvement to the filter back wash holding tank overflow piping.

Marygold Mutual Water Companey Reservoir No. 1- 2 MG Domestic Water Welded Steel Reservoir, City of Bloomington, CA: Senior Engineer responsible for the design of construction plans and specifications for a 2 million gallon domestic water reservoir. It included the coordination between San Bernardino County to meet conditional use permit requirements.

Marygold Mutual Water Companey Reservoir No. 2- 2 MG Domestic Water Welded Steel Reservoir, City of Bloomington, CA: Senior Engineer responsible for the design of construction plans and specifications for a 2 million gallon domestic water reservoir placed adjacent to existing reservoir no. 1. It included the coordination between San Bernardino County to meet conditional use permit requirements.

Eastside Water Treatment Facility Phase 1- 4 MG Reservoir, Ontario, CA: Senior Engineer responsible for the design of construction plans and specifications for a 4 MG Welded Steel Reservoir for the Lewis Management Corporation. The design included site piping, site grading and a mural design.

Eastside Water Treatment Facility Phase 2- 4 MG Reservoir, Ontario, CA: Senior Engineer responsible for the design of construction plans and specifications for a 4 MG Welded Steel Reservoir for the Watson Land Company. The design included site piping, site grading and a mural design.

Marygold Mutual Water Company Well No. 6, City of Bloomington, CA: Responsibilities included preparing construction plans and specifications for a new 2,500 gpm well pump, motor, disinfection facilities, well building, bypass piping and well discharge/percolation basin and appurtenances to replace an existing 900 gpm well that serves the domestic water system.

Brookhurst Street Well No. 40 Relocation, Anaheim, CA: Project Engineer responsible for the design and preparation of construction plans for the City of Anaheim,. The design involved the relocation of various above ground equipment and retrofitting an existing exhaust shaft for a below grade engine generator.

Walnut Park Mutual Water Company Well No.12 Equipping, City of Huntington Park, CA: Senior Engineer responsible for preparing constructions plansand specifications for a new 4,000 gpm well with a 450 hp well pump and electric motor, well building, chlorination and appurtenances

City of Chino Well No. 16 for The Preserve development, Ontario, CA: Project Engineer responsible for the design and preparation of construction plans for the City of Chino Well No. 16. The design involved equipping the domestic water well with an 800 gpm pump and 250 hp electric motor for newly developed water well. Project also included nitrate removal treatment plant by ion exchange, disinfection facilities, a booster pump station, blending facilities and related appurtenances.

Tract 73822 Hydraulic Network Analysis, Ventana Homes, Bellflower, CA: Project Engineer responsible for preparing the technical memo and run hydraulic analysis for verification if a proposed 6-inch water main would be adequate to provide the required fire flow demand for the proposed development located on Ramona Street in the City of Bellflower.

Fire Hydrant Analysis for US Veterans Village, Moreno Valley, CA: Project Engineer responsible for the prepatarion of the study and hydraulic network analysis for the Veterans Village per the Riverside County Fire Department requirements. A 2,250 gpm fire flow demand was used to determine the size required water main size that would serve the Village.

Hydraulic Analysis for Water Service for Gateway II Aprtments, Anaheim, CA: Project Engineer responsible for the preparation of the study and hydraulic network analsys to determine the available pressure at each building fire sprinkler point of connection and proposed fire hydrants with in the Gateway II Apartments Complex with a fire flow demand of 4,000 gpm.

Water Demand Analysis of Proposed Industrial Project, Ontario, CA: Project Engineer responsible for preparing a technical memorandum analyzing the water demands for a proposed industrial project. The project was entitled for up to 1,400,000 square feet of high cube warehouse/distribution industrial uses in multiple buildings in a 62 acres area. A total of 450 employees with a 20 gallon per day usage were used to determine the annual water demand for the project. The City of Ontario 2010 General Plan was used in the analysis.

Fire Sprinkler and Fire Hydrant Analysis for Boardwalk Apartments, Huntington Beach, CA: Project Engineer responsible for preparation of a hydraulic network analysis and study to determine the available pressure at each buildings fire sprinkler point of connection and proposed fire hydrants with in the Boardwak Apartment Complex with a fire flow of 1,500 gpm.

Fire Lane Water Service Request, Orange, CA: Project Engineer responsible for the reparation of a Technical Memorandum to document the design parameters and recommendations to install a fire hydrant for 19352 Fisher Lane, Orange CA per the Water Service Request letter from the resident. SAE performed a site reconnaissance to determine if the existing facilities would provide the required fire flow protection for the homeowner, it was determined that there was not adequate protection. SAE recommended a new fire hydrant be installed at the entrance to the private access road per the Orange County Fire Authority Fire Master Plan for Commercial and Residential Development guidelines
Wholesale Turnout Connections Water Quality Evaulation, Orange, CA: Project Engineer responsible for preparing a Technical Memorandum to document the design parameters and recommendations to the proposed operating modes for the OC-43 Feeder No. 2, OC-48 Feeder No. 2 and OC-70 Allen McColloch Pipeline turnouts to improve water quality.

The Preserve Specific Plan Domestic Non-Residential Demand Factors, Chino, CA: Project Engineer responsible for preparing a Technical Memorandum revising the water demand factors used for the non-residential land use categories that were originally obtained from the 2003 Water Master Plan Update as directed by the City if Chino. The updated water demand factors were revised to reflect the information from the 2004 Water Management Plan (WMP) update. The land use categories from the Preserve Specific Plan were also included in this memo as they were not included in the 2004 WMP update.

Engineering Study and Hydraulic Analysis for Off-Site Water Supply System Amli Orange Apartments, Orange, CA: Project Engineer responsible for the preparation of a hydraulic network analysis and study of the existing off-site domestic water supply system and the impacts of the proposed water system improvement and/or modifications to the existing off-site domestic water supply system. SAE reviewed available information provided by the City of Orange Public Works, Urban Resource and independent researches by SAE staff. A computer model hydraulic network analysis was performed with current fire flow test performed by an independent company (Craig Fire Protection) and witnessed by City of Orange staff.

Sewer System Hydraulic Analysis for Huntington Beach Hoag Health Center Expansion CUP No. 08-015, Huntionton Beach, CA: Project Engineer responsible for the engineering study and hydraulic network analysis to evaluate the existing City of Huntington Beach sewer system. The limits of the analysis where from the Beach Blvd. and Utica Street sewer connection to OCSD trunk sewer on Delaware Street. The services of sewer flow monitoring company ADS were obtained to get actual sewer flow data to be used in the study. The sewer system analysis was performed to determine if the additional flows from the Hoag Health Center Expansion would trigger any deficiencies in the exiting City of Huntington Beach Sewer System that were identified in the City of Huntington Beach's Beach-Edinger Corridor Specific Plan.

Peters Canyon Reservoir Storm Damage Mitigation, Orange, CA: Project Engineer responsible for the preparation of a Technical Memorandum to document the design parameters and recommendations

to mitigate the repairs at the Peters Canyon Reservoir from the damage caused by the winter storm event of January 17 through February 6, 2010. The storm event overtopped the hillside slope adjacent to the reservoir and eroded a channel that extended to the property line at the bottom of the slope. A geotechnical assessment was performed to determine and confirm that a reservoir leak had not developed. Based on the site/slope reconnaissance performed by the geotechnical, SAE prepared its recommendations to repair the gully created by the storm event.

Sewer System Hydraulic Analysis for Sares-Regis Group Boardwalk Apartments, Huntington Beach, CA: Project Engineer responsible for the preparation of a sewer system capacity study to determine the anticipated wastewater flow demands produced by the Boardwalk Apartment Development in the City of Huntington Beach and if they would impact the existing City of Huntington Beach existing sewer system. Steven Andrews Engineering coordinated with the City and ADS to obtain field flow measurements of the existing City sewer system flows within the vicinity of the project to determine if there was any extra capacity or deficiencies in the existing system with the addition of the Boardwalk Apartment Development wastewater flows.

Paramount High School West Campus On-Site Water Pipe Sizing Study
Paramount Unified School District, Paramount, CA: Project Engineer responsible for the preparation of a Hydraulic Network Analsys and Study to determine new domestic water pipe sizing for looping the domestic water system from Paramount's Third Street existing domestic water main to meet a 2,000 gpm fire flow requirement at the existing on-site fire hydrant. A letter report was prepared outlining the major results of study and analysis.

The Villages of Lakeview Water and Wastewater Value Engineering, City of Lakeview, CA: Project Engineer responsibe for reviewing previous studies, report, plans, and available information relative to the existing and proposed ultimate master planned domestic water system in the vicinity of the TVOL project. SAE developed baseline facilities along with scoping level capital costs and schedule for the TVOL domestic water system utilizing construction of ultimate domestic water facilities as outlined in the October 2007 EMWD Lakeview Master Plan. Some phasing costs were already developed in the plan. Based on this previous work and current understanding of EMWD policies, baseline facilities needed for Phase 1 of TVOL only was developed for an interim period to minimize initial construction costs. Based on the above work, an exhibit outlining proposed interim facilities was also prepared.

Fire Sprinkler Study for Cecil B. Demille Junior High School, Long Beach, CA: Project Engineer responsible for preparing a Hydraulic Network Analysis and Report to determine if the required fire sprinkler flow at each building of 625 gpm was meet. The network model information was based on data provided by Civil Works Engineering and fire flow test by the Long Beach Water Department. A letter report was prepared outlining the major results of study and analysis.

On-Site Water Pipe Sizing Study for Paramount High School Athletic Complex, Paramount, CA: Project Engineer responsible for preparing a Hydraulic Network Analysis and Report to determine the new domestic water pipe sizing required for the Paramount High School Athletic Complex that would provide a 3,000 gpm fire flow demand. A letter report was prepared outlining the major results of study and analysis.

Water and Sewer System Valuation, City of South Gate, CA: As Project Engineer assisted with the City of South Gate Water and Sewer System Valuation Report. Other responsibilities included researching available information and generating detailed spreadsheets.

Concrete Sewer Rehabilitation Program, City of South Gate, CA: The Project involved the rehabilitation of approximately 230,000 lf of concrete sewer in the City of South Gate. Responsibilities included researching available information and generating detailed drawing and spreadsheets. Meet with City Staff on a regular basis to coordinate work.

Emergency Concrete Sewer Repair Project, City of South Gate, CA: The Project involved the replacement of approximately 600 lf of 8"concrete sewer with 8" VCP pipe, Abandon and backfill of approximately 2,200 lf of 8" and 10"concrete sewer, Lining of approximately 420 lf of 10" concrete sewer pipe, and Abandon city manholes. Responsibilities included researching available information and generating detailed drawing.

Honeywell Sewer Line 2001, City of Torrance, CA: The project involved design of a sewer main for the Honeywell Project in the City of Torrance, California. Approximately 3,700 linear feet of 8-inch and 10-inch piping was required. The design was per City of Torrance Standards and Los Angeles County Department of Public Works Design Standards. Responsibilities included assisting in the design and preparation of construction documents for the Sewer Piping.

Industry Urban Development Agency, Trunk Sewer Relocations, City of Industry, CA: The project involved design for two separate LACSD trunk sewers in support of Grand Crossing Project in Industry, California. Approximately 8,000 lf of 30-inch to 48-inch relocated piping was required (VCP and RCP). Three custom junction structures also designed. All design prepared per LACSD standards. As Staff Engineer assisted in the design of the relocation of the Sewer Piping.

Katella Avenue Sewer Design, City of Anaheim, CA: Engineer for the design of approximately 1-¼ miles of 15-inch VCP sewer pipeline that replaced existing City sewers that were undersized. The alignment made connections to the Garden Grove Sanitary District system and traversed through unincorporated areas of the County of Orange. In addition, this project was scheduled to be constructed with the Katella Avenue Smart Street Project for both the City of Anaheim and the County of Orange. These unique design tasks required the close collaboration and coordination with multiple agencies and design consultants.

City of Anaheim Sanitary Sewer Peer Review, City of Anaheim, CA: The Project involved the review and recommendation of the cities sanitary sewer system. Responsibilities included reviewing Closed Circuit Television Videos of the cities sewers and verified design recommendations.

2005-06 Sanitary Sewer Improvements, City of Palos Verdes Estates, CA: The Project involved the rehabilitation of approximately 50,000 lf of vitrified clay pipe(VCP), Responsibilities included researching available information and generating detailed drawing and spreadsheets.

2004-05 Sanitary Sewer Improvements, City of Palos Verdes Estates, CA: The Project involved the rehabilitation of approximately 20,000 lf of vitrified clay pipe(VCP), Responsibilities included researching available information and generating detailed drawing and spreadsheets.

2003-04 Sanitary Sewer Improvements, City of Palos Verdes Estates, CA: The Project involved the rehabilitation of approximately 3,400 lf of vitrified clay pipe (VCP), the replacement of approximately 370 lf of 6 inch VCP on Easements in Private Lots. Responsibilities included researching available information and generating detailed drawing and spreadsheets.

Arroyo Trabuco Golf Course, Mission Viejo, CA: The Project involved the design of approximately 3,700 lf of 3inch sewer force main, 2,600 lf of 4 inch sewer main, 6,600 lf of PVC domestic water line, a creek diversion structure, and a pumping well design used to fill an existing lake.

Recycled Water Supply System Project, City of San Juan Capistrano, CA: Engineer for design and construction of approximately 7,530 linear feet of 12-inch PVC Recycled Water line and 1,660 linear feet of Domestic Water line, and included a Metering vault for the connection to the 12-inch Moulton Niguels Water District Line.

Mission Trail Transmission Main Replacement, Elsinore Valley Municipal Water District, Lake Elsinore, CA: Engineer for design and construction of approximately 8,000 linear feet of 24-inch Ductile Iron Pipe to replace an existing 24-inch PVC line that had a history of multiple pipeline failures.

PCH 10-Inch By-pass Water Pipeline, Los Angeles County, CA: Engineer for design and construction of a by-pass water system consisting of three 10-inch water pipelines to serve as a by-pass to a larger pipeline, over a distance of approximately 3,500 LF in the Malibu area on Pacific Coast Highway.

City of Tustin, Tustin MCAS Redevelopment, CA: The project included the design of 1,700 linear feet of domestic water piping, 8-18 inches; 8,350 linear feet of reclaimed water piping, 6-16 inches; and 11,300 linear feet of sewer piping, 8-18 inches. Assisted with the planning demolition of existing utilities and the construction of new utilities, as well as being involved in the design of these facilities. Keeping existing buildings in service was a key design consideration.

Pacific Point Development – Interim Pipeline – McCracken Hill, Sun Cal Companies, San Juan Capistrano, CA: Engineer responsible for the design of construction plans and specifications for the Interim pipeline to serve the McCracken Hill Area in San Juan Capistrano. Approximately 1,200 lf of 8” Aluminum piping was required to provide water service to the community.

EMPLOYMENT HISTORY:

2007 to Present	Senior Engineer, Steven Andrews Engineering
1998 to 2007	Civil Engineer, Psomas
1996 to 1998	Civil Engineer, City of Santa Ana

ASSOCIATIONS:

Latinos in Science and Engineering (MAES)
Orange County Water Association (OCWA)
American Society of Civil Engineers (ASCE)