

**RICARDO BEDOY, P.E.**

4354 Town Center Blvd, #114-270  
El Dorado Hills, CA 95762

info@RicardoBedoy.com  
(408) 838-9572

## RÉSUMÉ

Mr. Bedoy has over 30 years experience in the design and construction management of civil engineering projects to \$84 million; he has experience in the design, construction and inspection of underground utilities, water, wastewater, flood control, and bridge projects. Mr. Bedoy has managed construction administration and inspection teams with responsibilities for client contact, schedule review, quality assurance, cost control, negotiations, claims avoidance, constructability & bidability reviews.

***Education:***

California State Polytechnic University, Pomona  
B.S. Civil Engineering, 1983

Dispute Resolution Board Foundation  
DRB/DRA Training, 2013

***Registration:***

Registered Civil Engineer  
California      39403  
Nevada          15215  
Wyoming        11691  
Washington    44570

***Professional Affiliations:***

American Concrete Institute (ACI)  
American Society of Civil Engineers (ASCE)  
American Water Works Association (AWWA)  
American Welding Society (AWS)  
National Association of Corrosion Engineers (NACE)

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***Work History:***

- 2015 – Present           Ricardo Bedoy, a Sole Proprietorship  
Construction Manager, Sole Proprietor  
El Dorado Hills, CA  
Provided construction management services on recycled water projects.
- 2013 – 2015             SAGE Engineers, Inc.  
Construction Manager  
Roseville, CA  
Performed construction management and inspection duties on PG&E hydroelectric projects.
- 1998 – 2013            Ricardo Bedoy, a Sole Proprietorship  
Construction Manager, Sole Proprietor  
El Dorado Hills, CA; San Jose, CA; Monterey, CA  
Performed as Construction Manager, Resident Engineer, Lead QA Inspector, and Civil Inspector on various water, wastewater, flood control and bridge projects.
- 1988 – 1998            ASL Consulting Engineers  
Construction Manager (1994-1998)  
Project Manager (1991-1994)  
Project Engineer (1988-1991)  
Monterey, CA; San Diego, CA; Arcadia, CA  
Performed as Construction Manager, Project Manager and Project Engineer on various design and construction of water, wastewater, and gas projects.
- 1986 – 1988            KaWES and Associates  
Project Engineer  
Los Angeles, CA  
Performed design engineering on multiple residential development projects, consisting of grading, street, sewer, water and storm drain design.
- 1979 – 1986            ASL Consulting Engineers  
Design Engineer (1981-1986)  
Drafter (1979-1981)  
Pasadena, CA; Alhambra, CA; South Pasadena, CA  
Performed design engineering, engineering studies and drafting duties on multiple water projects.

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***Project History:***

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**2015-Present**

**Ricardo Bedoy, a Sole Proprietorship**  
**El Dorado Hills, CA**  
**Construction Manager**

**Pajaro Valley Water Management Agency (PVWMA), Blend Well Pipeline Project, Watsonville, CA**  
– Performed constructability and bidability review for the construction of the \$840,000 Blend Well Pipeline Project. The project consists of 2,700 feet of recycled water pipeline ranging from 16-inch to 24-inch welded steel pipe, corrosion system, system shut down coordination, environmental mitigation, and grower coordination.  
*Year 2015*

**Pajaro Valley Water Management Agency (PVWMA), K1 Pipeline Project, Watsonville, CA --**  
Performed constructability and bidability review for the construction of the \$2,900,000 K1 Pipeline Project. The project consists of 6,700 feet of recycled water pipeline ranging from 12-inch to 24-inch High Density Polyethylene (HDPE) pipe, 8 turnouts, corrosion system, environmental mitigation, and extensive grower coordination.  
*Year 2015*

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**2013-2015**

**SAGE Engineers**  
**Roseville, CA**  
**Construction Manager**

**PG&E Poe Dam Radial Gate Trunnion & Arm Replacement Project, North Fork Feather River, CA**  
– Construction Manager for the replacement of Gate 1 trunnions and arms, and having a construction cost of \$6,000,000. The project is located along the North Fork Feather River and consists of turbidity curtain installation, cofferdam fabrication and installation, sediment removal, pier nose modifications, trunnion and arm fabrication and replacement, complete re-coating of the existing Radial Gate 1, and environmental monitoring and compliance.  
*Year 2014-2015*

**PG&E Lower Drum Outage: Bear River Canal Improvements, Colfax, CA** – Field Engineer for the construction of canal lining improvements. Canal lining consisted of the demolition of an existing concrete lining, shotcrete of new lining, engineered fill slope, and new 36-inch corrugated steel pipe installation.  
*Year 2014*

**PG&E Lower Drum Outage: Halsey Forebay Retaining Wall, Meadow Vista, CA** – Construction Inspector for the construction of a replacement retaining wall. Retaining wall project consisted of the demolition of an existing gunite wall and constructing a new MSE block wall.  
*Year 2013-2014*

**PG&E Lower Drum Outage: Halsey Forebay Low Level Outlet, Meadow Vista, CA** – Construction Inspector for the construction of the low level outlet improvements. The low level outlet consisted of a Cured-in-Place Pipe (CIPP) to serve as a new lining for the existing steel pipe outlet.  
*Year 2013-2014*

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**1998-2013**

**Ricardo Bedoy, a Sole Proprietorship**  
**Monterey, CA; San Jose, CA; El Dorado Hills, CA**  
**Construction Manager**

**San Francisco PUC, Water System Improvement Program, San Joaquin Region Projects: East Segment Pipeline, Oakdale, CA** – Lead QA Inspector for the construction of the estimated \$45,000,000 East Segment Pipeline consisting of 6.7 miles of 78-inch welded steel pipe having an epoxy lining and polyethylene tape coat, three valve structures, one overflow tower vent, pipe fabrication inspection, corrosion system, and environmental mitigation.

*Client: PMA Consultants*  
*Year 2011-2013*

**San Francisco PUC, Water System Improvement Program, San Joaquin Region Projects: West Segment Pipeline, Tracy, CA** – Lead QA Inspector for the construction of the \$48,000,000 West Segment Pipeline consisting of 11 miles of 78-inch welded steel pipe having an epoxy lining and polyethylene tape coat, one bore across Highway 33, one bore across I-5, one bore across I-580, one bore across Chrisman Road, crossing of the Delta-Mendota Canal, crossing of the California Aqueduct, pipe fabrication inspection, corrosion system, and environmental mitigation.

*Client: PMA Consultants*  
*Year 2010-2012*

**San Francisco PUC, Water System Improvement Program, San Joaquin Region Projects: Tesla Treatment Facility, Tracy, CA** – Lead QA Inspector for the construction of the \$84,000,000 Tesla Treatment Facility project, a design-build project. The Tesla Treatment Facility will be a new 315-MGD water treatment facility using ultra-violet (UV) disinfection and new chemical feed facilities to treat cryptosporidium. The project consists of UV Reactor Building having twelve (12) 48-inch UV reactors, two (2) standby 2000 kW generators, Chemical Storage Building having three (3) sodium hypochlorite storage tanks and two (2) hexafluorosilicic acid storage tanks, Operations Building, Valve Vault with one (1) each 60-inch, 66-inch, 78-inch and 90-inch butterfly valves, new inlet and outlet piping ranging from 84-inch to 144-inch welded steel pipe, two (2) 144-inch butterfly valves, and two (2) 84-inch butterfly valves.

*Client: PMA Consultants*  
*Year 2009-2011*

**San Francisco PUC, Water System Improvement Program, San Joaquin Region Projects: Roselle Crossover, Riverbank, CA** – Lead QA Inspector for the construction of the \$3,000,000 Roselle Crossover project, a retrofit project. The Roselle Crossover is an existing valve vault located in the City of Riverbank, CA. The project consists of a new building constructed over the existing sub-terrain valve vault, removal of existing 60-inch butterfly valves (4 total), removal of 72-inch butterfly valves (2 total), removal of 36-inch butterfly valves (2 total), and the installation of Owner-furnished butterfly valves...60-inch (4 total), 72-inch (2 total), 42-inch Triple Offset (1 total), 36-inch Triple Offset (2 total), 30-inch Triple Offset (1 total). The new construction consisted of a new standby emergency power generator, propane tank, and new buildings to house the standby emergency power system.

*Client: PMA Consultants*  
*Year 2009-2011*

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**San Francisco PUC, Water System Improvement Program, San Joaquin Region Projects: Lawrence Livermore Laboratory and Thomas Shaft (LLNL)**, Livermore, CA – Lead QA Inspector for the construction of the \$3,000,000 LLNL project, a retrofit project. The LLNL is an existing water service connection with a chlorination treatment system located near the City of Livermore, CA. The project consists of a new building constructed over the existing Thomas Shaft which is situated over the 120-inch Coast Range Tunnel, addition of a new UV reactor treatment system, and retrofitting of the chlorination treatment system and related mechanical and electrical systems. The new construction consisted of the installation of new vertical turbine pumps into the nearby Construction Shaft that serves as a forebay for water service.

*Client: PMA Consultants  
Year 2009-2010*

**Pajaro Valley Water Management Agency, 2006 BMP Construction Program, Coastal Distribution System (CDS)**, Watsonville, CA -- Construction Manager for the construction of the \$17,250,000 CDS project. The project consists of 10 miles of recycled water pipeline ranging from 12-inch to 36-inch welded steel pipe, 2 bores across Highway 1, one Horizontal Directional Drill across the Pajaro River comprising of 1,300 feet of 36-inch x 3/4" thick welded steel pipe, 44 turnouts, pipe fabrication inspection, corrosion system, instrumentation system, environmental mitigation, and extensive grower coordination.

*Client: Jacobs Civil, Inc.  
Year 2006-2008*

**Santa Clara Valley Water District, Lower Silver Creek Reach 3, Phase 3**, San Jose, CA -- Resident Engineer for the 1,400 lineal feet of channel improvements along the Lower Silver Creek with a \$9,814,000 construction cost. The project consisted of shoring, excavation, concrete lined channel, concrete box culvert, trapezoidal earthen channel with gabion improvements, flood walls, shotcrete, rip-rap, bridge replacement using prestressed girder construction, pedestrian bridge replacement, utility relocations, planting and irrigation and environmentally sensitive areas. The project also consisted of significant documentation, survey coordination, soil testing, material testing, and cost estimating.

*Client: Harris & Associates  
Year 2005-2006*

**Santa Clara Valley Water District, Lower Silver Creek Reach 3, Phase 1**, San Jose, CA -- Resident Engineer for the 3,200 lineal feet of channel improvements along the Lower Silver Creek with a \$10,675,000 construction cost. The project consisted of shoring, excavation, concrete lined channel, trapezoidal earthen channel, flood walls, shotcrete, rip-rap, planting and irrigation and environmentally sensitive areas. The project also consisted of significant documentation, change order negotiation, survey coordination, soil testing, material testing, and cost estimating.

*Client: Harris & Associates  
Year 2004-2005*

**Santa Clara Valley Water District, Lower Silver Creek Reaches 1 & 2**, San Jose, CA -- Resident Engineer for the 5,000 lineal feet of channel improvements along the Lower Silver Creek with a \$14,700,000 construction cost. The project consisted of shoring, excavation, concrete lined channel, trapezoidal earthen channel with gabion improvements, flood walls, shotcrete, rip-rap, planting and irrigation and environmentally sensitive areas. The project also consisted of significant documentation, change order negotiation, survey coordination, soil testing, material testing, and cost estimating.

*Client: Harris & Associates  
Year 2002-2004*

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**City of Gilroy, Santa Teresa & Miller Water Tank**, Gilroy, CA -- Resident Engineer for 5.0 MG reinforced concrete rectangular reservoir with a \$4,000,000 construction cost. The project consisted of mass excavation, foundation, floor, wall, and roof construction, prestressed girder construction, soil nail shoring system, and associated pipe works.

*Client: Harris & Associates  
Year 2001-2002*

**City of Gilroy, Water Line and Sewer Main Improvements**, Gilroy, CA -- Resident Engineer for 3,000 lineal feet of 8-inch ductile iron water main replacement and 1,500 lineal feet of 8-inch PVC sewer main replacement along residential streets with a \$700,000 construction cost. The project also consisted of extensive traffic control considerations, utility conflicts, and public relations.

*Client: Harris & Associates  
Year 2002*

**County of Santa Cruz, Pump Station HVAC Improvements**, Santa Cruz, CA -- Resident Engineer for the replacement of HVAC and gas monitoring equipment at three sewage lift stations having a \$300,000 construction cost. The project consisted of scrubber and exhaust fan replacement, ductwork, gas monitoring equipment, electrical work, electrical code upgrades, and air balancing.

*Client: Harris & Associates  
Year 2001*

**City of Vallejo, Fleming Hill Clearwell Rehabilitation Project**, Vallejo, CA – Resident Engineer for the rehabilitation of an existing clearwell. The project consisted of concrete demolition, placement of new wall and floor concrete slabs with waterstop design and removal of existing roof deck coatings and coat with new sealant products. Construction costs estimated at \$2,500,000.

*Client: Montgomery Watson  
Year 2001*

**Union Sanitary District, Newark Sub-Basin Upper Relief Sewer Project**, Newark, CA – Deputy Resident Engineer for the construction of 3,500 feet of 21-inch polycrrete sewer using micro-tunneling methods. The project consisted of a highway bridge under crossing, railroad crossing, construction in residential and commercial areas; construction cost of \$3,000,000.

*Client: O'Brien Kreitzburg  
Year 2000*

**Contra Costa Water District, Willow Pass Pump Station and Pipeline**, Concord, CA -- Construction Administrator and Resident Engineer for the construction of the \$7,000,000 pump station and pipeline. The project consisted of a 20,000 GPM pump station, two miles of 30-inch and 36-inch steel pipeline through residential and commercial areas, contaminated soil removal, corrosion system, instrumentation system, and extensive utility conflicts.

*Client: Sverdrup Civil  
Year 1999-2000*

**Contra Costa Water District, Canal Slope Repairs**, Bay Point, CA -- Construction Administrator for the construction of the \$650,000 slope repair along the Contra Costa Canal. The project consisted of 105 slope repair features along the 47 mile canal by turf reinforcement matrix, controlled density fill, rip rap, and hydroseed methods. The project also required the coordination of canal cleaning activities, trail usage along the canal, and repairs to the Kirker Creek crossing.

*Client: Sverdrup Civil  
Year 1998*

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**Contra Costa Water District, Bay Point Pipeline and Pump Station, Bay Point, CA --** Construction Administrator for the construction of the \$3,200,000 pipeline and pump station. The project consisted of three miles of 16-inch and 20-inch steel pipeline through residential areas, Federal property, contaminated soil removal, corrosion system with one deep anode well and rectifier, and extensive utility conflicts. The project also consisted of a dual usage pump station complete with instrumentation system.

*Client: Sverdrup Civil  
Year 1998*

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**1988-1998**

**ASL Consulting Engineers**

**Arcadia, CA; San Diego, CA; Monterey, CA**

**Construction Manager, Project Manager, Project Engineer**

**Monterey County Water Resources Agency, Castroville Seawater Intrusion Project (CSIP), Castroville, CA --** Construction Manager for the construction of the \$32,000,000 CSIP. The project consisted of 43 miles of reclaimed water pipeline ranging from 12-inch to 16-inch high density polyethylene pipe, 18-inch to 51-inch concrete cylinder pipe, retrofit of 17 existing water wells, six new wells, three pump stations, 30 bores, two micro-tunnels, corrosion system with 46 deep anode wells and rectifiers, instrumentation system, highway crossings, railroad crossings, environmental mitigation, and extensive utility conflicts. Performed third-party design, bidability, and constructability reviews at 60 percent, 95 percent, and final stages.

*Year 1995-1997*

**City of Escondido, Reclaimed Water Distribution System, Escondido, CA --** Construction Manager for the third-party bidability and constructability reviews at 90 percent and final stages. The project consisted of 25 miles of reclaimed water pipeline ranging from 4-inch to 12-inch polyvinyl chloride pipe, 14-inch to 36-inch steel pipe, two prestressed concrete reservoirs, and one pressure reducing station. The pipeline alignment was routed through heavy commercial districts, residential areas, schools, community parks, bridge and highway crossings, flood control channel crossings, and environmental mitigation and a \$30,000,000 estimated construction cost.

*Year 1994*

**San Diego Gas & Electric, Pipeline 2000, La Mesa, CA --** Resident Engineer for Phase II consisting of 30,000 feet of 36-inch steel gas main through heavily travelled commercial districts and a \$6,000,000 construction cost.

*Year 1994*

**San Diego Gas & Electric, Pipeline 2000, La Mesa, CA --** Project Engineer for Phase II consisting of 30,000 feet of 36-inch steel gas main through heavily travelled commercial districts and a \$6,000,000 construction cost. The project design also consisted of the preparation of design documents for construction.

*Year 1993-1994*

**City of Oceanside, 5th Aqueduct Supply Line, Phase I, Oceanside, CA --** Provided construction administration for the project which consisted of 40,000 feet of 42-inch ductile iron water main through busy streets and having a \$8,000,000 construction cost. The project also consisted of extensive traffic control considerations and utility crossings.

*Year 1993*

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**San Diego County Water Authority, Pipeline 4 Extension, Phase II**, San Diego, CA -- Deputy Resident Engineer for the 7.75 mile long 72-inch and 96-inch steel pipeline project with a \$25,000,000 construction cost. The project consisted of construction through fully developed residential areas, open country, tunnel crossings of major arterials, and environmentally sensitive areas. The project also consisted of significant documentation, change order negotiation, survey coordination, soil testing, material testing, weld testing, corrosion control, blasting operations, and cost estimating.

*Year 1992-1993*

**City of Compton, Sewer Rehabilitation**, Compton, CA -- Construction Manager for the third-party design, bidability, and constructability reviews at various stages. The project consisted of 10,000 feet of sewer rehabilitation by replacement, inversion lining, slip lining, and pipe bursting methods through commercial, residential, and light rail corridors; estimated construction cost \$750,000.

*Year 1993*

**City of Oceanside, 5th Aqueduct Supply Line, Phase I**, Oceanside, CA -- Project Engineer for a project which consisted of 40,000 feet of 42-inch ductile iron water main through busy streets and extensive utility crossings and having a \$8,000,000 construction cost. The project design also consisted of the preparation of design documents having extensive traffic control considerations.

*Year 1992-1993*

**San Diego County Water Authority, Pipeline 4 Extension, Phase II**, San Diego, CA -- Project Engineer for the 7.75 mile long 72-inch and 96-inch steel pipeline project with a \$25,000,000 construction cost. The project design consisted of alignments through fully developed residential areas, open country, tunnel crossings of major arterials, and environmentally sensitive areas. The project also consisted of corrosion control, blasting parameters, pipe shell design, specifications, and cost estimating.

*Year 1991-1992*

**La Habra Heights County Water District, Pump Plant No. 6**, La Habra Heights, CA -- Project Manager for the design and construction of a pump station relocation having a \$500,000 construction cost. The project consisted of site selection and layout, building and piping layout, specifications, cost estimating, and construction administration.

*Year 1990-1991*

**Anden Group, Cooks Canyon Pump Station**, La Crescenta, CA -- Project Manager for the design and construction of a pump station to serve the Markridge Development and having a \$500,000 construction cost. The project consisted of grading, drainage, building, piping, chlorination, telemetry, specifications, and construction administration.

*Year 1990-1991*

**La Habra Heights County Water District, Reservoir 4A**, La Habra Heights, CA -- Project Manager for the design and construction of a 2.0 MG steel reservoir having a \$600,000 construction cost. The project consisted of site layout, grading, drainage, piping, retaining wall design, specifications, cost estimating, and construction administration.

*Year 1990-1991*



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**Anden Group, Cooks Canyon Steel Tank, La Crescenta, CA** -- Project Manager for the design and construction of a 0.5 MG steel tank to serve the Markridge Development and having a \$350,000 construction cost. The project consisted of site selection, grading, drainage, piping, telemetry, specifications, cost estimating, and construction administration.  
*Year 1990-1991*

**City of Ontario, Water Master Plan Update, Ontario, CA** -- Project Manager for the water master plan update. The project involved land use and water demand analysis, hydraulic modelling, hydraulic analysis, review of water sales records, water losses, future projections, and mapping.  
*Year 1989-1990*

**Porter Ranch Development Company, Sesnon Boulevard Trunk Line, Los Angeles, CA** -- Project Manager for 2,500 feet of 30-inch steel trunk line involving the City of Los Angeles, Department of Water & Power, and having a \$750,000 construction cost. The project consisted of the preparation of plans and specifications, cost estimating, and construction administration for the Porter Ranch Development Company.  
*Year 1989-1990*

**Crystal Ranch Development Company, Hillhurst Pump Station, Los Angeles, CA** -- Project Manager for the design and construction of a pump station to serve the Crystal Ranch Development, and having a \$1,300,000 construction cost. The project consisted of grading, drainage, building, piping, one natural gas driven pump, four electric motor driven pumps, chlorination, telemetry, specifications, and construction administration.  
*Year 1989-1990*

**City of Azusa, Foothill Boulevard Transmission Line, Azusa, CA** -- Resident Engineer for 6,000 feet of 16-inch and 20-inch ductile iron water main with a \$600,000 construction cost. The project consisted of construction along a heavily travelled commercial district and required careful traffic control considerations to minimize the disruption to traffic and local businesses.  
*Year 1989*

**City of Azusa, Foothill Boulevard Transmission Line, Azusa, CA** -- Project Engineer for 6,000 feet of 16-inch and 20-inch ductile iron water main with a \$600,000 construction cost. The project design consisted of careful traffic control considerations to minimize the disruption to local businesses.  
*Year 1988-1989*

**Los Angeles County Waterworks District, 60th Street West Transmission Line, Palmdale, CA** -- Project Engineer for 10,000 feet of 18-inch steel transmission line with a \$700,000 construction cost. The project consisted of the preparation of plans and specifications and cost estimating.  
*Year 1988-1989*

**Crystal Ranch Development Company, Crystal Ranch, Los Angeles, CA** -- Project Engineer for 20,000 feet of 6-inch and 12-inch ductile iron water main (to serve Tracts 43943, 43933, 43934, and 43935) involving the City of Los Angeles, Department of Water & Power, and having a \$650,000 construction cost. The project consisted of the preparation of plans and specifications, and cost estimating for the Crystal Ranch Development Company.  
*Year 1988-1989*

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**Homes by Polygon, Camino San Rafael Pressure Reducing Station, Glendale, CA** -- Project Manager for the design and construction of a 2000 GPM pressure reducing station to serve the San Rafael Development and having a \$100,000 construction cost. The project consisted of hydraulic analysis, grading, drainage, piping, telemetry, specifications, cost estimating, and construction administration.

*Year 1988-1989*

**Homes by Polygon, Chevy Chase Pump Station, Glendale, CA** -- Project Manager for the design and construction of a pump station to serve the San Rafael Development and having a \$1,200,000 construction cost. The project consisted of grading, drainage, building, piping, one natural gas driven pump, one electric motor driven pump, chlorination, telemetry, specifications, and construction administration.

*Year 1988-1989*

**Homes by Polygon, Emerald Isle Steel Tank Glendale, CA** -- Project Manager for the design and construction of a 0.5 MG steel tank to serve the San Rafael Development and having a \$350,000 construction cost. The project consisted of grading, drainage, piping, telemetry, specifications, cost estimating, and construction administration.

*Year 1988-1989*

**La Habra Heights County Water District, Reservoir 8, La Habra Heights, CA** -- Project Engineer for the rehabilitation of a 0.5 MG steel reservoir having a \$100,000 construction cost. The project consisted of rehabilitation detailing, specifications, cost estimating, and construction administration.

*Year 1988-1989*

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**1986-1988**

**KaWES and Associates, Inc.**  
**Los Angeles, CA**  
**Project Engineer**

**Various Private Development Projects, Los Angeles, CA** – Performed design engineering on multiple residential development projects, consisting of grading, street, sewer, water and storm drain design.

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**1979-1986**

**ASL Consulting Engineers**  
**South Pasadena, CA; Alhambra, CA; Pasadena, CA**  
**Design Engineer, Draftsman**

**City of El Monte, Equipping Well No. 13, El Monte, CA** -- Project Engineer for the equipping of a 2500 GPM domestic water well. The project consisted of site layout, building layout, pump and motor sizing, piping, chlorination facilities, cost estimating, and construction administration.

*Year 1985-1986*

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**City of Huntington Park, Pump Station Projects**, Huntington Park, CA -- Design Engineer for the preparation of plans, specifications, construction cost estimates for the Bear/Florence Pump House building replacement and the pump and engine replacement for the Bear/Florence and Miles/Slauson booster pump stations. Both pumping facilities were designed to be equipped with natural gas engines and electric motors.  
*Year 1985-1986*

**City of Lakewood, Ashworth Street**, Lakewood, CA -- Project Engineer for 10,000 feet of 6-inch and 8-inch ductile iron water mains through residential streets and having a \$350,000 construction cost. The project consisted of the preparation of plans and specifications and cost estimating.  
*Year 1985-1986*

**Ventura County Waterworks District No. 8, Water Master Plan**, Simi Valley, CA -- Design Engineer for a water master plan located in the Simi Valley. The project involved land use and water demand analysis, hydraulic modelling, hydraulic analysis, review of water sales records, water losses, future projections, and mapping.  
*Year 1984-1985*

**United Parcel Service, Parcel Distribution Center**, Sylmar, CA -- Design Engineer for a major parcel distribution center. The project consisted of the design of the drainage system for a 180-acre site, grading plans, and four debris basins.  
*Year 1984-1985*

**County of San Bernardino, Redlands Boulevard Storm Drain**, Redlands, CA -- Design Engineer for a project involving the design and construction of 5,600 feet of reinforced concrete box conduit ranging from 6 feet high by 12 feet wide. The project consisted of approximately 1,750 feet of reinforced concrete pipe ranging from 24-inch to 69-inch and miscellaneous drainage structures.  
*Year 1983-1984*

**County of San Bernardino, Reservoir Canyon/Zanja Creek Drainage Study**, Redlands, CA -- Design Engineer for a drainage study which involved hydrology, hydraulics, preliminary design, and cost estimating. The project also involved coordination with the U.S. Army Corps of Engineers, which conducted a concurrent study of the Zanja Creek alignment.  
*Year 1982-1983*

**U.S. Army Corps of Engineers, Prado Dam and Spillway Modification Study**, Corona, CA -- Design Engineer for a project consisting of a modification study to evaluate effects and costs of raising the dam and controlling flows through tainter gates.  
*Year 1982-1983*

**City of Pico Rivera, Water System Evaluation**, Pico Rivera, CA -- Design Engineer for a water system evaluation using computer modelling. The project involved mapping, hydraulic modelling of the existing water system, evaluation of system responses under maximum day and fire flow demands, identification of system weaknesses, and recommendations for upgrading the existing system.  
*Year 1981-1982*

**City of Ontario, Storm Drain Master Plan**, Ontario, CA -- Design Engineer responsible for hydrology, hydraulics, storm drain sizing, and preliminary design. The project required the use of the rational method and unit-hydrograph method in flood control facility analysis and design.  
*Year 1981-1982*

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