

JC BALDWIN CONSTRUCTION

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JC Baldwin Construction Company

STATEMENT OF QUALIFICATIONS

Established in 1976, **J.C. Baldwin Construction Company** is recognized throughout California as a premiere general engineering contracting firm that offers a wide range of engineering and construction services. **J.C. Baldwin** is renowned for our construction expertise in geotechnical applications, landslide and earthquake repair and stabilization, bluff retention systems, shoreline stabilization and seawall construction, coastal engineering hydraulics and hydrology, building foundation repair and stabilization, and drainage repairs.

J.C. Baldwin Construction Company has successfully completed high profile projects that are both highly visible and "unseen" in Southern California, building seawalls and coastal bluff enhancements that blend aesthetically into the natural environment. We provide a wide range of construction services and have the skill sets to take on any type of challenging project.

Our Expertise

J.C. Baldwin Construction Company specializes in construction projects that involve the earth science disciplines. In addition to conventional construction services on transportation, port and harbor, commercial/industrial, residential and water-related projects, we specialize in offering our clients geotechnical, geological, riverine, and coastal construction services which are unique to geotechnical, structural and civil engineering firms. We maintain a highly trained staff and a wide range of specialized equipment that enables us to work on projects with extremely limited access as well as larger projects including working in the most challenging environments.

Our Vision

Our goal has always been to provide our clients with the highest quality of service, as well as an insight into the construction issues that may affect their project. We work intimately with the design team and the client to suggest economic measures for integrating the effects of existing site conditions into the design of the project and rely heavily on our many years of experience to help our clients achieve their goals efficiently and economically. It has been our experience that this contribution from members of the Baldwin team provides a better-built product which allows our team to take pride in their achievements.

Our Staff

J.C. Baldwin Construction Company's staff currently includes professional equipment operators and well-trained construction personnel. We offer extensive experience in geotechnical, structural, civil, coastal, and hydraulic construction in California and also maintain a California licensed Civil and Geotechnical Engineer on staff to assist our clients and provide consultation on projects. Our philosophy is that well-experienced construction engineers and construction personnel can evaluate complicated projects and then provide safe and economical construction recommendations for those projects.

SERVICES

J.C. Baldwin Construction Company is renowned for our construction expertise in geotechnical applications, landslide and earthquake repair and stabilization, bluff retention systems, shoreline stabilization and seawall construction, coastal engineering hydraulics and hydrology, building foundation repair and stabilization, and drainage repairs.

Landslide Repair & Slope Stabilization

J.C. Baldwin has reconstructed slopes that failed using conventional earthmoving techniques and stabilized landslides prior to catastrophic failure occurring using a wide range of methods. We work with geotechnical engineering firms and geologists to assess a sites condition for constructability and access and work with the property owner to provide a solution that will work within their budget and time constraints.

Bluff Retention Systems & Stabilization

Southern California is well known for the steep terrain that is typical of our neighborhoods. Unfortunately, whether due to natural erosion, weathering, clay seams, bedding plane faults, or even man-made conditions such as over-steepening of slopes during development, many homes and structures built adjacent to bluffs and steep hillsides have been found to be at risk of damage and even potential demolition. Once a property is developed, access to the areas requiring stabilization becomes even more problematic, and this is where J.C. Baldwin's expertise becomes invaluable. Having the know-how and the experienced staff and equipment on hand to do the work is essential to allowing us to respond to emergency situations.

Shoreline Stabilization & Protection

One of California's most precious natural resources is the coastline that is such an inherent part of our lifestyle. California's beaches are world famous, and protecting the natural beauty of our shoreline has been the backbone of J.C. Baldwin's business since our inception. We take great pride in working with others who strive to take a balanced approach to protecting structures and maintaining a coastal environment that we will all be able to enjoy for this and future generations.

Seawall Construction

Building a seawall is a delicate balance between engineering and art. These walls must often be built under extremely harsh conditions, with the oceans waves lapping at the wheels of the equipment, squeezed in between the water and the structures they are intended to protect. J.C. Baldwin Construction has extensive experience successfully completing projects in this demanding environment.

Building Foundation Repair & Stabilization

Damage to building foundations can result from expansive soils, settlement, landslides, earthquake damage or just improper construction. J.C. Baldwin has the technical capability and equipment to modify, improve or install all types of foundations and stabilization methods. Our teaming relationships

with structural and geotechnical engineering firms enable us to provide appropriate designs, including preparation of plans and assisting with submittals to the proper agencies.

Earthquake Damage Reconstruction

Ground shaking due to earthquakes can directly lead to damage to foundations and structures, and can also cause liquefaction, lateral spreading, seismic settlement, and landslides causing damage to structures, roads, and other improvements. J.C. Baldwin has the capacity to resolve and repair many forms of the resultant damages and works with engineers, contractors and developers to repair and restore damaged structures to their original condition.

Soil Nails & Tiebacks

Installation of soil nails and tiebacks is often used in conjunction with retaining walls and slope facings to stabilize slopes and landslides. J.C. Baldwin Construction has the highly-specialized equipment, the technical expertise and the trained workforce required to be able to drill horizontally into a hillside for distances of 100-feet or more to employ these stabilization methods.

Drainage Repairs

Water has a tendency to find its path of least resistance, and will often infiltrate into areas that can cause damage to foundations, landscaping, surface improvements, and can even contribute to other types of ground movement such as landslides, ground heave and settlement that can damage foundations and structures. J.C. Baldwin has experience installing drainage fabrics and geotextiles, drainage pipes, hydroaugers, wick drains, and constructing culverts and swales and other surface drainage improvements to remedy nearly any type of water-related damage.

Geotechnical Support Services

J.C. Baldwin Construction provides geotechnical support services to the Geoprofessional community including Geotechnical Engineering and Geology consulting firms. Services include providing excavators and backhoes for fault studies and trenching, sawcutting and patching of concrete and asphalt concrete pavement, and will soon offer drilling and soil sampling capabilities. J.C. Baldwin offers limited access equipment and can also facilitate excavation of test pits when necessary due to access limitations.

Projects

Bluff Repair – Shell Beach, Pismo Beach, CA

J.C. Baldwin Construction Company (JCB) performed emergency repairs to replace a failed metal crib wall that had closed a section of Ocean Boulevard, an ocean frontage street in Pismo Beach, California. The failure occurred in an environmentally sensitive area with significant access limitations. JCB acted as the Construction Manager and General Contractor and installed an approximately 128-foot long by 35-foot high tieback wall with a natural sculptured finish to blend with the native surrounding bluff.

Emergency Bluff Repair and Stabilization - Pacifica, CA

When a significant bluff failure threatened the Land's End Apartment complex in Pacifica in northern California, J.C. Baldwin Construction Company was selected as the construction company by the property owner to provide emergency repairs. An engineered caisson and grade beam repair was installed by JC Baldwin to stabilize the bluff and protect the adjacent apartment buildings. JC Baldwin was also required to relocate existing storm drains and sewer lines to facilitate the repair.

The Land's End Apartment complex also was experiencing severe beach erosion which had resulted in a loss of an approximately 700-foot long by 70-foot high section of coastal bluff property. This resulted in a loss of coastal public access which had been destroyed. J.C. Baldwin Construction Company was retained by the property owner to act as the Construction Manager to construct a seawall that was 700-foot long by 35-foot high and create a new public access ramp and stairway to restore public access to the beach.

Shoreline Stabilization – Solana Beach, CA

The Pacific Avenue Shoreline Stabilization project was a 37 foot high and 360 foot long tieback wall in the city of Solana Beach built under emergency permit conditions to protect the homes on the upper bluff.

J.C. Baldwin was contacted by TerraCosta Consultants to work with the eight bluff-top homeowners and the City of Solana Beach to construct the wall and perform the backfill operation to shore up the endangered homes. The project consisted of one-hundred and three 75 foot long, 345 kip tieback anchors, 935 cubic yards of 5,000 P.S.I. concrete that was keyed 3 foot into bedrock. The 13,300 square foot wall was rock sculptured and colored to simulate the surrounding bluff.

Immediately following the wall construction JC Baldwin proceeded to perform the upper bluff portion of the repair which was a 5,075 cubic yard 1:1 Geogrid reinforced slope. This consisted of over 6,000 square yards of Tensar Geogrid embedded 3 feet into a concrete grade beam at the rear of the slope. When the project was completed, the upper and lower bluff repair was nearly invisible to the untrained eye.

Point Loma Wastewater Treatment Plant – San Diego, CA

The Point Loma Wastewater Treatment Plant (PLWTP), owned and operated by the City of San Diego, has been experiencing ongoing coastal erosion since its original construction in 1963. By 1984, stone revetments had been placed at the base of approximately 50 percent of the bluffs supporting the site

facilities. The City recognized that as erosion continued to encroach upon improvements at the PLWTP, it had become necessary to upgrade the coastal protection in the vicinity of the PLWTP to mitigate any further erosion and disruption caused by wave damage. J.C. Baldwin was retained as the general engineering contractor to provide construction for the coastal protective works ultimately proposed for shoreline stabilization in the vicinity of the PLWTP.

This project included one-hundred and twenty-five 90 foot tiebacks, a 150 foot long reinforced earth wall and approximately 1,000 yards of 5,000 PSI decorative shotcrete carved and colored to match the existing coastal bluffs. Following construction, the PLWTP was awarded the Outstanding Project Award from the California Geotechnical Engineers Association (CGEA), and the Outstanding Civil Engineering Project Award from the San Diego Section of ASCE.

Seawall Construction – Del Mar, CA

A number of homeowners in Del Mar, CA were experiencing years of beachfront-home erosion and community hassle. In 1997, J.C. Baldwin Construction (JCB), with engineering by Group Delta Consultants of San Diego and Noble Consultants of Irvine, was able to construct a seawall for the Del Mar Homeowners. The project consisted of a sheet-pile wall that extended to depths of 40 feet deep. Vibratory equipment was used for driving the interlocked sheet-pile along a precisely-located template. The concrete mass seawall extended 830 feet long and 40 feet deep.

During construction, JCB maintained safe beach access and minimal disturbances to homeowners. The seawall solved the years of beachfront-home erosion thereby diminishing any further property damage. The results were a wall that is unobtrusive in view-conscious Del Mar.

Seawall Construction – Cardiff, CA

The Cardiff Reef Seawall located at Cardiff State Beach in Southern California was constructed to save homes which were critically threatened by cliff erosion. J.C. Baldwin Construction (JCB), with engineering by Woodward Clyde Consultants, pioneered a 7,000-cubic-yard, Tensar-reinforced slope above its 160 foot long by 27 foot high seawall and bluff stabilization at Cardiff State Beach. The cast-in-place, reinforced-concrete seawall, accomplished between tides in both confined and fragile bluff space, is supported by a continuous footing embedded into four feet of bedrock.

With JCB's innovation and collaboration on the design for the seawall from Woodward Clyde Consultants, the Cardiff Seawall Project eliminated homeowners' fear of being threatened by cliff erosion. The project resulted in both stability and security for the future.

Mr. Cohen has more than 30 years of experience throughout southern, central and northern California. Mr. Cohen has been a Project Manager for geotechnical, environmental and construction services teams including field and laboratory testing services and construction materials testing and inspection. His expertise includes developing, supervising and performing geotechnical investigations programs, including instrumentation and laboratory testing programs for evaluation and design of grading and foundation specifications for residential subdivisions, commercial/industrial developments, water and wastewater facilities, pipelines, roadways, school districts, hospitals and medical facilities, parks, commercial office complexes, manufacturing plants, cellular tower sites, fire stations, roadways, bridges and parking facilities. Mr. Cohen's involvement in these projects has included client initiation and proposal/cost preparation, performance of field investigations, management of technical staff, engineering analysis and reporting and overall project management. Project budgets in dollar amounts ranged from several thousand dollars to several million dollars.

Education:

- B.Eng., Civil Engineering, McGill University, Montreal, Quebec, Canada
- J.D. (Cum Laude), Thomas Jefferson School of Law, San Diego, CA

Professional Registrations:

- California Professional Civil Engineer #41937
- Arizona Professional Civil Engineer #32273
- Hawaii Professional Civil Engineer #9155
- Texas Professional Civil Engineer #89872
- Oregon Professional Civil Engineer #82102PE
- California State Bar - Licensed Attorney
- California Professional Geotechnical Engineer #2346
- Nevada Professional Civil Engineer #012144
- Washington Professional Civil Engineer #44093
- Colorado Professional Civil Engineer #46679
- Oregon Professional Geotechnical Engineer #82102PE
- California Contractor's License (A)

Principal Geotechnical Engineer, RMA Group, San Diego, San Jose, Sacramento, California (2013-2014)

Mr. Cohen was the Principal Geotechnical Engineer for the San Diego office as well as the San Jose and Sacramento offices for RMA Group. Mr. Cohen was responsible for client development, supervising engineering duties as well as supervising office, field and laboratory staff. Mr. Cohen was responsible for reviewing all laboratory test result and field inspection reports, performing engineering studies, as well as having financial responsibilities, including proposal development and invoice review for on-going projects. Mr. Cohen was involved in reviewing field and laboratory test reports for soil, concrete, asphalt, reinforcing steel, structural steel, welding, masonry, grout and mortar. Mr. Cohen also provided expert witness services for construction defect litigation related to foundation construction, ground movement, and other civil and geotechnical conditions.

Fresno Office Branch Manager, BSK Associates, Fresno, California [2011-2013]

Mr. Cohen was responsible for supervision of all office operations including staff management and administration, and field and laboratory testing services. He had financial responsibility for branch operations, including profit/loss, budgeting, long-term and short-term Strategic Planning and Business Development, including review of contracts. He managed day-to-day operations including a staff of approximately 30 professionals, scientists, inspectors, technicians and clerical staff.

Besides his management and oversight of general office functions, he was the responsible Civil/Geotechnical Engineer for a wide variety of environmental and geotechnical engineering projects, including Phase I Environmental Assessments, Geotechnical Investigations and Construction Observation and Materials Testing. Additionally, he was the Civil Engineer responsible for laboratory testing services and special inspection and field testing services, including DSA and OSHPD reporting (including soils, concrete, reinforcing steel, masonry, mortar and grout).

Mr. Cohen managed the coordination efforts with three other branches (Bakersfield, Sacramento, Livermore) to provide support for laboratory, field and engineering services as needed. Mr. Cohen also provided expert witness services for construction defect litigation related to foundation construction, ground movement, and other civil and geotechnical conditions.



DANNY COHEN, PE | GE

PROFESSIONAL REGISTERED ENGINEER

Principal Engineer/Vice President, Hetherington Engineering, Inc., Carlsbad, California [1985-2011]

Mr. Cohen performed project management of construction and construction defect litigation related projects ranging from single-family residential lots to multi-unit residential and commercial projects. Responsibilities included initial and on-going client contact with developers, builders, contractors and attorneys, proposal preparation, budget development and project management, and invoicing and receivables. Supervised, managed and scheduled engineering and geologic staff members.

Researched, reviewed and analyzed reports, plans, permits, and construction related documents at various city and county agencies throughout southern California, Nevada and Arizona. Mr. Cohen also provided expert witness testimony for construction defect litigation related to foundation construction, ground movement, and other civil and geotechnical conditions.

Developed, supervised and performed geotechnical investigations, including instrumentation and laboratory testing programs for: evaluation and design of grading and foundation specifications for residential and commercial developments; design of asphalt and concrete pavements; slope stability; seismic and static settlement; liquefaction potential and lateral spreading; lateral fill deformation; and groundwater conditions. Repair methodologies included underpinning, compaction grouting and soil remediation, soil nail and tieback installation, retaining wall construction, slope reconstruction, drainage installation, foundation and slab remediation.

Evaluated and designed repair methodologies to mitigate damage to foundations and structural improvements due to: construction deficiencies, landslides, fill settlement, heave and shrinkage of expansive soils, slope movement, liquefaction and shallow groundwater.

Staff Engineer, Leighton & Associates, Inc., San Diego, California [1983-1985]

As a Staff Engineer, Mr. Cohen practiced and performed engineering observation and construction testing services as well as supervised field technicians during grading and development of residential and commercial projects. He was responsible for supervision and performance of geotechnical investigation programs for evaluation and design of residential and commercial developments and designed, installed and evaluated instrumentation programs that monitored landslides, settlement, ground heave, slope instability and groundwater issues.



Paul McKee

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Experience

1980 to 1998	Subcontractor for J.C. Baldwin Construction Company
1998 to Present	Foreman, Superintendent and Vice President of J.C. Baldwin Construction Company

Paul McKee has been employed with J.C. Baldwin Construction for over 15 years. During this time he has been employed as a foreman and superintendent, and for the last 10 years has been a one-third owner and Vice President of the corporation. Mr. McKee has been running the day to day operations of the company in this time period and prior to this from 1980-1998 he provided services for J.C. Baldwin Construction as a subcontractor.

Licenses

C27 Landscape Contractors License No. 453511

Professional Associations

California Geotechnical Engineers Association