



"Our clients primarily come to us by referral. They praise our responsiveness, problem solving capabilities, adherence to schedules, and personable staff."

Leonard Whitchurch, MS, PE  
Vice President & Principle Engineer



## Capability Statement



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## Company Information

**Opened 1996, Incorporated 2001**

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### Civil Engineering

- Utility Infrastructure Design
- Multifamily Development
- Land Development
- Soils Reports and Investigation
- Grading and Drainage Plans/Solutions
- FEMA Flood Elevation Investigations and Certificates
- Erosion Control Plans
- SWPPP and Inspections
- LID Design
- Road Design
- Septic Design

### Structural Engineering

- Structure Design
  - Concrete
  - Masonry
  - Steel
  - Wood
  - Light Gauge Metal
- Seismic Retrofits
- Moment Frames
- Finite Analysis/Design
- Metal Building Foundations
- Lateral Analysis of Structures
- Industrial Expansion & Demolition
- Retaining Wall Design

### Mechanical Engineering

- HVAC & Odor Control
- Gas Distribution System Design
- Plumbing Supply Design
- Water Supply Design
- Energy System Design

### Architectural Services

- Design and CAD drafting
- Seismic Design
- Construction Drawing Set Production
- Design for ADA Compliance
- Production of Specification Manuals
- 3D Modeling

### Permitting

- California Coastal Commission
- Caltrans
- Army Corps of Engineers
- Local Agency Building/Grading
- State Housing and Community Development
- Commercial Cannabis Related Permitting
- CEQA Initial Studies
- Wetland Delineations

### Other Services

- Survey
  - Topographic Surveying
  - Tentative Map Preparation
  - Construction Staking
  - Subdivision Staking
- Project Management
- Concrete Testing
- Masonry Inspections
- Project Oversight
- High Strength Bolt Inspections
- California Fish & Wildlife Inspections
- California Building Code (CBC) Special Inspections
- QSD/QSP Services
- High Strength Bolt Inspections
- Procedure Writing
- Work Planning

## Certifications



### State of California

Small Business #1755646



### California Public Utilities Commission

Woman-Owned Business #10BS0075

DUNS: 961753175

CAGE: 719A7

UNSPSC : 811000, 811015, 811516

NAICS: 541330, 541340, 541350, 541370

## Diverse Project Capabilities

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**Humboldt Bay Power Plant (HBPP) - PG&E Prime Contractor since 2009:** The existing plant, located in a seismically active area (over a fault line), was modified under WEI's civil and structural design to safely remove the nuclear components. HBPP is adjacent to Humboldt Bay and under the scrutiny of the California Coastal Commission. Responsibilities for this \$1+ billion-dollar project include; staff augmentation, civil & structural engineering, providing infrastructure, grading and drainage system designs, and governmental permitting, as well as designing new structures to package radioactive waste. Because of its unique characteristics and engineering solutions, industry professionals from around the world have made visits to view these engineering related decommissioning projects.

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**Cinema West Theaters:** Three screening rooms were added to the classic Fortuna Theatre without affecting the charm of the original historic building. Whitchurch Engineering went on to design theatre additions, seating platform remodels, and other renovations to Cinema West theaters in Fairfax, Angels Camp, Boyes Hot Springs, Martinez, Petaluma, Livermore, Sonoma, and Tiburon.

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**North Coast Co-Op:** This \$9 million-dollar project utilized sustainable materials and practices to expand and reinvent an old Big Loaf Bakery building on the property; three of the original walls and trusses from the bakery were used and the new structure now takes up an entire city block. The full structure required the abandonment of a city alley and the reroute of a major city sanitary sewer line, crossing US 101.

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**Kuleto Estate Winery:** Whitchurch Engineering made this unique multi-tiered old-world style estate possible through innovative structural solutions. The Kuleto Estate winery construction was stalled due to a cost-prohibitive design when WEI joined the project. WEI provided structural engineering and construction assistance that made it possible to complete the project on time and on budget. The Kuleto Estate presented some design challenges due to its unique rock-clad exterior and its location on a hill overlooking Napa Valley and Lake Hennessey.

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**Cellular Towers for Edge Wireless:** Multiple cell towers were installed on sites across the rural northwest, providing service to Mendocino, Lake, and Humboldt Counties. Whitchurch Engineering provided foundation design, access road design, retaining wall design, soils reports, and geological hazard investigations for various cell tower locations. ***The towers are now part of the nationwide AT&T network.***

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**VA Seismic Retrofit:** The existing structure was a 1960's era concrete tilt-up with a barrel shaped roof. Generally, seismic retrofitting of this type of structure is not economically feasible since the existing columns do not have a lateral load resisting capacity. However, our team was able to find an innovative and affordable solution by designing a cable x-bracing diaphragm system to transfer the seismic forces to the exterior walls while utilizing the existing concrete tilt-up panels to transfer seismic forces to the foundation.

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**MacDonald/Marling 39 Lot Subdivision:** This subdivision was to be created from 4 existing parcels adjacent to a creek. The creek was listed as a waterway by the Regional Board of Water Quality, Army Corps of Engineers, and the Dept. of Fish and Game. Whitchurch Engineering generated the tentative map and executed the topographic surveying required to conduct a hydraulic analysis, formulate a drainage report, and generate the preliminary drainage plan. A specialized outfall was devised in coordination with the Army Corps of Engineers to ensure the development remained compliant with Local and Federal regulations.