

Company Overview

Whitchurch Engineering, Inc. (WEI) was founded in 1996 and incorporated in 2001.

WEI is a fully licensed and insured Civil & Structural Engineering, and Survey firm currently staffed with 17 Engineers, 1 Land Surveyor, 1 Land Surveyor in Training, a Certified Building Inspector, Drafter, Safety Supervisor and 4 support staff.

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

Civil Engineering Services:

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

Structural Engineering:

- Retaining Walls and Structure Design
- Seismic Retrofits
- Moment Frames
- Metal Building Foundations
- Lateral Analysis of Structures
- Finite Analysis/Design
- Industrial Expansion & Demolition

Surveying Services:

- Topographic Surveying
- Boundary Surveys/Lot Line Adjustments
- Final Map Preparation
- Easements Preparation and Recordation
- Construction Staking

Permitting:

- California Coastal Commission
- Caltrans
- Army Corps of Engineers
- State Housing and Community Development

Other Services:

- QSD/QSP Services
- CBC Required Special Inspections
- Construction Management



Civil / Structural Engineering & Surveying
Residential, Commercial, Industrial



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CAGE: 719A7

NAICS: 541330, 541340, 541350, 541370

CERTIFICATIONS

State of California
Small Business (Micro) #1755646
expires July 31, 2017

California Public Utilities Commission
WBE #10BS0075
expires May, 9, 2019

Current Major Contracts

Since 2009 **PG&E Humboldt Bay Power Plant - Civil Engineering, Structural Engineering, Surveying:** Engineering lead since 2009 for nuclear decommissioning, civil and structural engineering, staff augmentation, Reactor Pressure Vessel Segmentation, CRDM Removal Design, Road Infrastructure, removal of Liquid Rad Waste System and Turbine Building Modifications.
Contract Amount to date: \$13,000,000

Since 2013 **Chicago Bridge & Iron (CB&I):** Contracted as Engineering and Work Planning Lead at PG&E's Humboldt Bay Power Plant for Civil Works support through Final Site Restoration.
Contract Amount to date: \$8,239,000

Since 2013 **PG&E Humboldt Bay Generating Station - Civil Engineering, Structural Engineering, Surveying:** Engineering Consulting Services including Project Management for new 60kv spare transformer from Korea, Machine Shop structural review, and occupancy permitting of Relay Building, HBGS consists of 10 natural gas reciprocating engine-generator sets with a combined capacity of 163MW.
Total Contract Amount to date: \$252,000

Since 2015 **Benbow Inn - Civil Engineering, Structural Engineering, Surveying:** This historic building from the 1920's is undergoing a major structural remodel of approx. 38,375 sq ft and a new commercial 5-story building addition of 8,000+ sq ft which includes an elevator and other accessibility renovation.
Engineering costs to date: \$210,000

Since 2013 **Renner Petroleum - New Cloverdale Station - Civil & Structural Engineering, Surveying:** Converting old trucking yard into large cardlock fuel station and petroleum product retail, annexation into the City of Cloverdale, frontage improvements, new utility infrastructure design, fueling plans and permitting, grading/drainage, SWPPP, Low Impact Dev. Design/Permit & interior remodel.
Engineering costs to date: \$351,000

Diverse Project Capabilities



Humboldt Bay Power Plant (HBPP) - PG&E preferred vendor since 2009.

The existing plant, located in a seismically active area (over a fault line), through WEI's civil and structural design was modified to safely remove the nuclear components. HBPP is adjacent to Humboldt Bay and under the scrutiny of the California Coastal Commission. Responsibilities for this \$900 million dollar project include; staff augmentation, civil & structural engineering, providing infrastructure, grading and drainage system designs, governmental permits, 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 the engineering related projects.



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.



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.



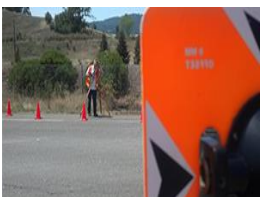
Kuleto Estate Winery: Whitchurch Engineering made this unique multi-tiered old world style estate possible through innovative structural solutions. The Kuleto Estate winery construction was stalled due to a cost-prohibitive design when WEI joined the project. WEI provided structural engineering and construction 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.



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.*



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.



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.

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