

## **Construction Project Experience: Engineering (Site Development, Foundations & Shoring)**

Fred has extensive experience doing site development and public right-of-way work including mass grading, deep excavations with shoring, utilities, retaining walls, paving, traffic signals, lighting, landscaping, water features, etc. Engineering experience includes water treatment plants, power plants, methane gas recovery/co-generation plants, airport, and a bridge. Licensed California Engineering Contractor "A" classification.

### **Site Development**

- **Agua Caliente Casino:** 40 acres of onsite mass grading, water feature and other site development. Off-site road, utilities and traffic signalization work. Rancho Mirage, CA. (Roel Construction)
- **Veterinary Medical Center at San Diego Wild Animal Park:** 15 acres mass grading with 60k cu yd dirt export and site development. San Diego, CA. (Nielsen Dillingham Builders)
- **Uniden R&D Complex:** 20 acres mass grading and site development. San Diego, CA. (Shimizu/Nielsen Dillingham J.V.)
- **Citrus Hills Intermediate School, Corona Norco Unified School District:** 17 acres mass grading and site development. Corona, CA. (Nielsen Dillingham Builders)
- **Perris Administrative and Operations Center, Eastern Municipal Water District:** Construction management 30 acre site development concurrent with buildings. Perris, CA. (Nielsen Dillingham Builders)
- **Uptown District:** 14-acre demo and site re-development, signalization of two street intersections, half mile of 10" off-site sewer main. San Diego, CA. (Nielsen Construction)
- **Pacific Corporate Center:** Adding streets, utilities and traffic signal improvements for commercial subdivision. San Diego, CA. (Nielsen Construction)
- **Lincoln Samaritan Hospital:** Mass grading and site improvements for a 400 sf hospital, roads, parking lots and future bldg pads. Glendale, AZ (Sundt Corporation)
- **Baca Geothermal Power Generation:** Roads and building pads built between 7K to 9K ft elevation on the side of a heavily wooded extinct volcano. Retaining walls to 22ft. On site rock crushing. Baca, NM. (Sundt Corporation)

### **Drilled Caisson and Driven Pile Foundations**

- **Uniden R&D Complex:** 10-story office tower with drilled caisson foundation system. San Diego, CA. (Shimizu/Nielsen Dillingham J.V.)
- **San Diego Qualcomm Stadium Renovation & Expansion:** East end zone five-level concrete stadium structures seating 17k people. 6 ft diameter over 100 ft deep drilled caisson foundation system. Drilled below the water table employing polymer drilling fluid. San Diego, CA. (Nielsen Dillingham Builders)
- **The Village Hillcrest:** Seven story above grade hospital over a four-level underground parking garage. Drilled caisson foundation system. San Diego, CA. (Nielsen Construction)
- **Uptown District:** Ralph's Grocery Store over an underground garage and a 2 level parking structure both with drilled caisson foundation systems. San Diego, CA. (Nielsen Construction)
- **Olen Parking Structure:** Two story parking structure with pre-stressed concrete driven pile foundation system. Irvine, CA. (Pinner Construction)
- **Baca Geothermal Power Generation:** 50k megawatt new plant with drilled caisson and matt slab foundation system. Baca, NM. (Sundt Corporation)

## Massive Matt Slab Foundations

- **Park Laurel Condos (Phases I and 2):** Two 14-story above grade towers plus 2 levels underground. 9 ft thick matt slab foundation and footing system. San Diego, CA. (Roel Construction)
- **Agua Caliente Casino Hotel, Convention Center and Spa:** 17-story above grade hotel tower with a 22 ft deep basement. 9 ft thick matt slab foundation. Rancho Mirage, CA. (Roel Construction)
- **San Diego Qualcomm Stadium Renovation & Expansion:** Existing 2-level concrete stadium structures renovated adding 3 more additional levels. Retrofitted matt slab foundation system. San Diego, CA. (Nielsen Dillingham Builders)
- **Baca Geothermal Power Generation:** 50k megawatt new plant with matt slab foundation under the power block. Baca, NM. (Sundt Corporation)

## Deep Excavations and Shoring

- **Morongo Mission Indians Administrative Complex:** Administration bldg with a below grade level. Deep excavation. Cabazon, CA. (Roel Construction)
- **Agua Caliente Casino Hotel, Convention Center and Spa:** 17-story above grade hotel tower with a 22 ft deep basement. Vertical cut excavation with vertical steel soldier beams and wood lagging shoring system. Rancho Mirage, CA. (Roel Construction)
- **Park Laurel Condos (Phases I and 2):** Two 14-story above grade towers plus 2-levels underground. Vertical cut excavation with soil-nail and shotcrete concrete shoring system. Drilled caisson foundation for the tower crane. San Diego, CA. (Roel Construction)
- **Laurel Bay Apartments:** Three levels of underground parking encompassing entire city block. Vertical cut excavation with soil-nail and shotcrete concrete shoring system. 58k cuyd dirt export. San Diego, CA. (Roel Construction)
- **The Village Hillcrest:** Multiple buildings over a four-level underground parking garage. Vertical cut excavation to 51 ft in depth with vertical steel soldier beams and wood lagging system. 120K cuyd of dirt export. San Diego, CA. (Nielsen Construction)
- **Lincoln Samaritan Hospital:** 400k sf, four-story hospital. Deep excavation. Glendale, AZ (Sundt Corporation)
- **Yuma Waste Water Treatment:** 3mgd plant expansion. Multiple deep excavations and shoring for below grade structures and large diameter pipe lines. Yuma, AZ. (Sundt Corporation)
- **Chino Waste Water Treatment:** 6mgd plant expansion. Multiple deep excavations and shoring for below grade structures and large diameter pipe lines. Chino, CA. (Sundt Corporation)

## Military, Water Treatment & Power Generation

- **Mark V. Maintenance Facility at North Island Naval Air Station:** Competitive lump sum bid, high bay steel structure for servicing/garaging the Mark V jet boats. San Diego, CA. (Nielsen Dillingham Builders)
- **Camp Pendleton Fitness Center:** 20k sf gym & fitness center at Camp Pendleton Marine Base. Camp Pendleton, CA. (Nielsen Dillingham Builders)
- **Sycamore & San Marcos Land Fills:** Methane gas recovery/co-generation plants. (Nielsen Construction)
- **Chino Waste Water Treatment:** 6mgd plant expansion. Self-performed concrete, Chino, CA. (Sundt Corporation)
- **Yuma Waste Water Treatment:** 3mgd plant expansion. Self-performed concrete, Yuma, AZ. (Sundt Corporation)
- **Baca Geothermal Power Generation:** 50k megawatt new plant. Baca, NM. (Sundt Corporation)
- **Navajo Power Generation:** Shutdown and rehab. Page, AZ. (Sundt Corporation)