Community Planning and Engineering, Inc.

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Civil Engineering ▪ Infrastructure Master Planning ▪ Construction Management

Civil Engineering Capabilities

Residential/Commercial/Industrial Developments · Water Systems · Wastewater Systems · Storm Drainage/Flood Control Systems · Highways and Roads · Parks and Recreational Facilities · Pedestrian Facilities and ADA Compliance · Infrastructure Master Planning

About Community Planning and Engineering

As the urban character of Oahu extends west towards the second city of Kapolei, Community Planning and Engineering (CP&E) is leaving its mark on almost every newly designed master-planned development. Whether it is major master-planned residential subdivisions in Waikele or Kapolei Villages, high-profile luxury resort amenities at Ko Olina, a new college campus at the University of Hawaii West Oahu, shopping centers, golf courses, industrial parks, or major highways in West Oahu, CP&E is assisting landowners, developers, and government entities by providing professional engineering services ranging from conceptual master planning and utility layout to design and construction management. The same is true for the neighbor islands where we have been involved with the development of new communities on the slopes of Haleakala on Maui and the Kona coast of the Big Island.

Civil Engineer Design Capabilities

CP&E has been Hawaii's infrastructure and land development expert for over five decades. We offer a comprehensive spectrum of civil engineering design capabilities that are applied to venues ranging from entire districts to single facilities. We have designed new water and wastewater systems, hundreds of miles of sewer and water lines and new roadways. We have found creative, cost-effective solutions to complicated regional infrastructure issues and managed the construction of thousands of acres of newly urbanized communities.

Technical Expertise

Our professional staff forms a seasoned, complementary team that embodies a rich combination of backgrounds, experiences, strengths, and technical expertise. When exploring and evaluating options, they draw upon over 300 years of collective expertise when arriving at solutions that must unfold in a timely and cost efficient manner. These solutions are delivered with uncompromising integrity – an attribute that has been instrumental in establishing our reputation for excellence.

For more information contact Mr. Anson Murayama, Principal Engineer and CEO
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Master Planned Communities

East Kapolei Master Planned Community, Kapolei, Oahu, Hawaii, Department of Hawaiian Home Lands

The East Kapolei development consists of two separate parcels. East Kapolei I is a subdivision that includes 403 residential units, the Department's new office building, a fire station, a commercial parcel, and a park. East Kapolei II consists of 1,102 residential lots, 1,000 low-density apartments, middle and elementary schools, and the Kroc Community Center. CP&E provided master planning and civil engineering services. The utility master plans consisted of water, wastewater, drainage, power, and telecommunications.

Resort Development

Ko Olina Resort Development, Ko Olina, Oahu, Hawaii, West Beach Estates

Ko Olina is a 640-acre world-class, master-planned resort featuring 4,000 luxury hotel and condominium units, an 18-hole championship golf course, and a marina with 270 full-service slips. CP&E was responsible for master planning and providing civil design services for $450 million in infrastructure improvements and freeway interchange. During construction, CP&E served as the consultant for bidding and construction management. Strategic coordination and aggressive project management was required during the two-year period while major infrastructure was put into place.

Utility Infrastructure

Niu Valley Wastewater Pump Station Force Main Replacement, Honolulu, Oahu, Hawaii, City and County of Honolulu

CP&E, as a subcontractor to CH2MHill, was selected by the City to execute a design-build permanent replacement of the Niu Valley Wastewater Pump Station force main. CP&E designed the tie-ins to the existing sanitary sewer system at each end of the new replacement pipeline and determined the design and size of the new sanitary line. We also performed a pump analysis to determine the hydraulic effects of the new force main on existing pumps and prepared all necessary permits including NPDES permitting.

Highway and Roadways

East-West Road, Kapolei, Oahu, Hawaii, Department of Hawaiian Home Lands

East-West Road is one of the major arterials that connects Kualakai Parkway (North-South Road) to Fort Weaver Road. Construction of this major arterial will serve not only the DHHL residential developments (East Kapolei I and II) but also a means to extend and provide access to the future Ho opili (DR Horton) development and connection to Fort Weaver Road. CP&E was retained to provide design services for this 4-lane highway. We were responsible for the topographic survey, subdivision mapping, geotechnical investigation, electrical and telecommunication system, and miscellaneous structural design.

Solar Design and Installation

Installation of a Photovoltaic Electrical System at 19 Sites along Kamilonui Place, Hawaii Kai, Oahu, Hawaii

Kamilo Nui Valley is the last undeveloped valley in Hawaii Kai. For most of the residents who lease the 23 agricultural lots, farming continues to be the sole source of revenue. The PV system will generate enough income to pay for a 25-fold increase in the lease and allow residents to continue farming. CP&E is providing civil design services and is responsible for coordinating the efforts of all engineering consultants and preparing a complete set of design documents to site adapt the PV systems on 19 of the 23 lots.