▼ Bachelor Enlisted Quarters
U.S. Marine Corps
Kaneohe, HI

In a design/build bid competition, Hawaiian Dredging (HDC) won the contract to build 96 military housing units for the Marine Corps on the island of Oahu. A portion of the proposal involved recommendations for the structural design and exterior enclosure system.

Visual appeal and the ability to withstand high wind loads were considerations that led to the Marine Corps acceptance of Metal Stud Crete (MSC) metal and concrete panels for the enclosure system. Architects Pacific and HDC, both of Honolulu, HI, recommended the system because of its tested strength and ICBO approval.

The MSC panels—237 in all—were cast on temporary casting tables at the job site. They consist of 2"-thick concrete slabs secured to 6" deep x 16-gauge steel stud frames with proprietary MSC shear connectors embedded in the wet concrete. Once erected, the panels were textured with an elastomeric coating for visual enhancement. The panels were insulated with an R-13 condition.

The MSC system is a product of Earl Composite Systems, Pasadena, CA.

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