



**US Army Corps  
of Engineers®**

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## **Corps, Army Garrison Open Historic C Quad**

**By Aiko Brum Chief, Command Information, U.S. Army Garrison, Hawaii and  
Honolulu District Public Affairs**

**(SCHOFIELD BARRACKS, HI - 17-07)** The U.S. Army Corps of Engineers and U.S.

Army Garrison- Hawaii officials opened the newly-renovated C Quad at Schofield

Barracks April 10 with a Hawaiian blessing and ribbon-cutting at the quad.

Col. Howard J. Killian, U.S. Army Garrison, Hawaii commander and U.S. Army Corps of Engineers, Pacific Ocean Division Commander Brig. Gen. John W. Peabody, officially presented the C Quad buildings after the complex received a Hawaiian blessing.

Following three years and more than \$58 million in renovations the quad awaits the return of 2nd Battalion, 35th Infantry Regiment, 3rd Infantry Brigade Combat Team from Operation Iraqi Freedom.

“Hoomaemae,” said Rev. Kaleo Patterson, who serves a parish on the Waialae Coast. “Make clean of any impurity of thought or design, the land upon which we stand today.”

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## **2-2-2 C QUAD**

“The history of this quad will live on as it stood here on 7 December, 1941 ... strafed by the Japanese when attacking at Wheeler Army Air Field ... and as it was used in 1953 as the filming site for the movie version of ‘From Here to Eternity,’” Killian explained. “C Quad, like its contemporaries, is one of the earliest concrete-paneled buildings constructed in Hawaii.”

Due to being included on the National Register of Historic Places, the exterior of these buildings remains unchanged, while the interiors were renovated to meet the current Army standards. The configuration of four buildings surrounding a central courtyard forms the concept of the “quad.” The new Quad C is now home to a full-sized gym/basketball court, a company-level conference room and the latest amenities for Soldiers who will live the barracks life.

The Army’s over 10-year, \$1 billion Whole Barracks Renewal Program in Hawaii, requires transformation of facilities to comply with 21st century building codes, and antiterrorism and force protection standards.

The mandate greatly challenges installation commanders because it requires them to convert barracks designed for high-volume occupancy into “suites.” For example, the two C Quad barracks were once home to 1,500 Soldiers. Now, 36 single occupant and 132 one-plus-one rooms, called suites, will house junior enlisted Soldiers and noncommissioned officers — for a total of 300 Soldiers.

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### **3-3-3 C QUAD**

The suites feature keyless entry, separate bedrooms and a common bathroom and kitchen. Additional amenities, in all living spaces, include a full-sized refrigerator, range and microwave oven; bathrooms with sinks, toilets and tub showers – instead of latrines; and a dayroom, that is, a common entertainment or recreational area, per barracks floor.

During renovation contractors restored the quad buildings, listed on the National Register of Historic Places, to their original architectural design at the turn of the century – complete with period colors and double-cased windows, as well as numerous modern-day comforts.

“C Quad was built during a large building campaign that focused on infantry regiments, back in the 1915 to 1918 timeframe,” said Killian about the setting, richly steeped in history.

“I’m very much impressed,” exclaimed Mary Jane Lee of the Wahiawa Neighborhood Board. “We’re familiar with the way it was; we lived here on Schofield. That was many years ago,” she explained of the time when civilians used to live on post.

Likewise, noted Velma Kim, Wahiawa Botanical Gardens, “It’s just amazing what they do these days; it’s so different now.”

Kim recalled circa 1924, a time when her dad ran a laundry business on Schofield Barracks.

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#### **4-4-4 C QUAD**

According to Killian, the quad concept required preparing the design and construction of four, three-story concrete buildings to house barracks, community activities, company operations, battalion headquarters, and dining facilities. Plus, demolition and renovation of historical buildings had to comply with the National Historic Preservation Act.

Quad C is one of a series in barracks renewal projects that will provide Hawaii Soldiers with “a quality of life commensurate with the quality of service” they provide, Killian emphasized.

In total, Quad C required renovation of 288,000 square feet of facilities – the two barracks were gutted down to their slabs, and then recreated by contractors; all exterior utilities and pavement were replaced, and the center courtyard restored. When the last touch had been made, more than 400,000 man hours had been expended.

Killian is most proud that the project stayed true to designs.

“In spite of modifications, the project was able to maintain its heritage and historical features,” he said.

The quad provides facilities for five company headquarters, including their supply and arms rooms and company offices, as well as the battalion headquarters building, which includes a state-of-the-art dining facility, the battalion administrative and headquarters offices, and a consolidated Soldiers’ lounge. The most up-to-date communications, safety and security systems are also modern features.

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### **5-5-5 C QUAD**

During tours of the facilities, Maria Yepes of Wahiawa General Hospital recalled and compared her memories.

“My father was in the infantry, stationed here in 1915 to 1916, that era,” she explained. “I thought [these barracks] were more dormitory style. This is better than many apartments. The rooms are much bigger.”

C Quad was built during a large building campaign at Schofield Barracks from 1915-18 for the infantry. The 1st and 2nd Battalions of the 2nd Infantry Regiment were quartered in the new barracks, Buildings 356 and 358, in 1915. Completed in 1916, Buildings 355 and 357 housed their administrative offices and the 2nd Battalion, 20th Infantry Regiment.

The C Quad Project Delivery Team organized and coordinated by the U.S. Army Corps of Engineers Honolulu District included: construction contractor Nan, Inc.; Architects Hawaii Ltd.; the Honolulu District’s Schofield Barracks Resident Office; the Directorate of Information Management; U.S. Army Garrison, Hawaii Housing Office; the Directorate of Emergency Services; and the 3<sup>rd</sup> Infantry Brigade Combat Team.

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## C Quad, Schofield Barracks

**Customer:** U.S. Army Garrison, Hawaii

**Tenant:** 2nd Battalion, 35th Infantry Regiment, 3rd Infantry Brigade Combat Team

**Project Cost:** \$57+ million

**Project Construction Time:** Three years

**Architect:** Architects Hawaii Ltd.

**Contractor:** Nan, Inc.

**Move in date:** March 30, 2007

**Ribbon-Cutting/Hawaiian Blessing:** April 10, 2007

**Schofield Barracks Area Office Resident Engineer:** Allyn Tabata

**Corps Project Engineer:** Frank Ono

**Program Manager:** David Lindsey

**Quad C Project Managers:** Jerry Matsuda, Tyler Miyamoto

**Project staff:** D.J. Fusero, Stuart Fermahin (Quality Assurance Representative)

Horace Foxall (Corps of Engineers - Historical Architect)

Wayne Kutch (Corps of Engineers - Historical Architect and Structural Engineer)

Dr. Lori Lucking (Archaeologist/U.S. Army Garrison-Hawaii)

Ken Hays (U.S. Army Garrison-Hawaii)

### Historical Facts:

- National Register of Historic Places (exterior of quad buildings must remain unchanged; compliance with Section 106 Historic Preservation regulations)
- Quad buildings were strafed by the Japanese when attacking at Wheeler Army Air Field on Dec. 7, 1941.
- Quad was used in the 1953 as a filming site for the movie version of “*From Here to Eternity*”
- One of the earliest concrete-paneled buildings constructed in Hawaii.
- Quad was built at Schofield Barracks from 1915-18 for the infantry.
- In 1915, the 1st and 2nd Battalions of the 2nd Infantry Regiment were quartered in the new Buildings 356 and 358.
- Completed in 1916, Buildings 355 and 357 housed their administrative offices and the 2nd Battalion, 20th Infantry Regiment.

### Project facts:

- Quad buildings restored to their original architectural design at the turn of the century – complete with period colors and double-cased windows
- 288,000 square feet of spaces renovated
- More than 400,000 man-hours of renovation time
- New barracks buildings feature 36 single occupant suites and 132 “1 + 1” suites (i.e. two bedrooms with one Soldier each and a shared kitchen and bath)
- Each living space has its own refrigerator, range, microwave oven and bathroom with shower and tub.
- Each barracks floor has its own day room (shared recreational space).  
Company Operations Facility building provides facilities to operate five company headquarters to include supply rooms, arms rooms and company offices as well as a near-full sized gym on the third floor.

- Battalion HQ building houses a state of the art DFAC, BN administrative and HQ offices as well as a consolidated Soldier lounge.
- All 4 buildings are now capable of withstanding a significant terrorist strike as required by the new anti-terrorism force protection requirements.

### **Significant Project Challenges:**

**“One challenge was for the pre-award design team and contractor's designers,”** said Frank Ono, C Quad Project Manager, Honolulu District

**“They had to meet Army requirements to provide adequate space for the troops in an existing building. The number of troops occupying the barracks was pre-determined and there are actual footage requirements for sizes of rooms, closets, etc. The building had to be constructed to meet current seismic and anti-terrorism/force protection requirements, which required major structural upgrades. Concrete was placed on insides of walls, columns were beefed up, etc. - all of which took up valuable space. These upgrades all had to be accomplished without changing the exterior of the buildings and any features of the building.”** (In compliance with Section 106 Historic Preservation regulations)

**“Our guys in the trenches quietly made this project a huge success,”** said Andrew Kohashi, Chief, Army Branch-Hawaii, Honolulu District

**“The PDT (Project Delivery Team) did a great job in renovating this historic quad. I applaud the special efforts by Frank Ono and his crew,”** said Jim Bersson, Deputy District Engineer for PPM, Honolulu District