

**HICKAM FIELD, FORT KAMEHAMEHA OFFICERS' HOUSING  
TYPE Z  
(Hickam Air Force Base, Building No. 3330)  
19 Worchester Avenue  
Honolulu  
Honolulu County  
Hawaii**

**HABS No. HI-164-AT**

**HABS  
HI-164-AT**

**PHOTOGRAPHS**

**WRITTEN HISTORICAL AND DESCRIPTIVE DATA**

**Historic American Buildings Survey  
National Park Service  
Department of the Interior  
San Francisco, California**

## HISTORIC AMERICAN BUILDINGS SURVEY

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- Location:** 19 Worchester Avenue  
City and County of Honolulu, Hawaii  
U.S.G.S. Pearl Harbor, Hawaii Quadrangle 1999 (7.5 minute series)  
Universal Transverse Mercator Coordinates 04.607690.2358280.
- Significance:** Building 3330 is a part of the early development of Fort Kamehameha, and one of thirty-six officers' quarters that were originally constructed by the Army there in 1916. The officers' quarters were designed in the Craftsman style. Fort Kamehameha was the Coast Artillery fort which guarded the naval base at Pearl Harbor and also was the Army's headquarters for Oahu's harbor defenses.
- Description:** Building 3330 is single-story with a u-shaped plan that forms a courtyard between the two rear wings, with one wing used for service areas and the other for bedrooms. The building rests on a lava rock and concrete pier foundation with a wall foundation of the same materials along the front. This front foundation wall has arched openings. Building 3330 has a hip roof with open eaves that is covered with asphalt shingles. The roof has four fixed louver vents, one at the top of each of the two front and rear-facing hips. The rafter tails at the corners of the hips and at the front entry have decoratively cut ends. The building is board and batten construction with a girt at the top of the window casings. At the corners of the front façade are pilasters with recessed center panels and simple molded capitals. The exterior window casings have molded sills and cornice.
- The front entry of the building is reached by four concrete steps up from grade that are flanked by lava rock and concrete cheek walls with concrete caps. The entry is protected by an extended section of the roof that has decorative cut rafter tails and is supported by knee-braced brackets. The entry doorway is double flush wood doors with single lights. The rear entry is accessed by three concrete steps and also has double flush wood doors with single lights.
- The interior of Building 3330 is typically board and batten ceilings and walls, with a picture rail at the top of the window casings. Floors are carpet in the living areas and bedrooms, and vinyl flooring in the kitchen, pantry, bathrooms, and service areas. Typical interior doors are five panel wood, with the exception of doors in the living room, dining room, and lanai. These are casement doors with either nine or twelve rectangular lights that are topped by three square lights divided into small triangles by crossed wood muntins. Doors and windows typically have shouldered casings.
- Canec panel ceilings with molded ceiling beams are found in the living and dining rooms. In these rooms, a plate rail is located at the top of the

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window casings. Above the rail the walls are canec. Two built in china cabinets are located in the dining room. These have double doors with two narrow, vertically oriented lights in each door. At the top of the doors, are lights divided into small triangles by crossed wood muntins.

Typical windows in the building are one-over-one light double-hung, with some jalousie. The bedroom hall, originally enclosed with screen panels, has two double hung windows between it and the two middle bedrooms. The upper lights of the double-hung windows in the front walls of the living room and front bedroom are divided by diagonal wood muntins which form a diamond pattern. Flanking the twelve-light door between the lanai and the sitting room are two, one-over-one light double-hung windows which have leaded lights in their top sashes. The kitchen and pantry have openings to the exterior of the building high on their side walls. These were originally open for ventilation, filled with diagonal lattice. Now they are sealed with clear acrylic sheets.

The kitchen has upper and lower cabinets with painted flush wood doors and drawers. The pantry has upper cabinets with single light doors with cupboard latches, and lower cabinets with painted flush wood doors and drawers with bin pulls. The pantry also has a tilting flour bin and a porcelain enameled iron sink. Above the upper cabinets in the wall between the kitchen and panty is an opening for ventilation.

**Historical Context:** Building 3330 is one of a group of officers' quarters that were originally constructed at Fort Kamehameha in 1916 (Dorrance 1993, 32). A total of thirty-six officers' quarters were built; four of these were Type Z buildings, the same type as Building 3330, and thirty-two were Type Y buildings. The residences along Worchester Avenue, including Facility 3330 and the three other Type Z buildings, were completed first, followed by the four Type Y quarters on Hope Street (Office of the Deputy Installation Commander 1974, 48) sometime after September 1919 (Wheeler Army Air Field Plan Files 1919).

Building 3330, like the other Type Z Quarters, was designated as a Field Officers' Quarters when it was built. These quarters were numbered 19-22. The remaining thirty-two buildings, (the Type Y quarters), were designated for Company Officers.

Building 3330 was built from standardized plans produced at Schofield Barracks by the Office of the Constructing Quartermaster for the construction of armed forces housing in Hawaii during the early twentieth century. Extant plans are dated December 1916 and January 1917 (Wheeler Army Air Field Plan Files 1916, and Wheeler Army Air Field Plan Files 1917). Although these drawings show several variations to the buildings that were built at Fort Kamehameha in 1916 they generally follow the plan and main room layout and are useful in illustrating the building's detailing.

Building 3330 has undergone some alterations to its basic plan over the years. The bedroom hall, service porch, and lanai, all originally screened, have been enclosed. The sitting room was added to the rear of the building, enclosed, and divided onto two rooms. Doors and windows

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have been replaced and floor coverings added. The bathrooms and kitchen have been remodeled with replacement plumbing fixtures and cabinets. The building has been re-roofed with asphalt shingles replacing the original wood shingles.

For additional information, see HABS HI-164-AS Hickam Field, Fort Kamehameha Historic Housing.

**Sources:**

Anderson, Lisa K., and Katherine Bouthillier. 1998. *Final Report Data Compiled For Use In The Preparation Of A Management Plan For The Fort Kamehameha Area, Pearl Harbor Oahu*. Prepared by Ogden Environmental and Energy Services Co., Inc. for the Department of the Navy, Honolulu.

Dorrance, William H. 1993. *Fort Kamehameha, The Story of The Harbor Defenses of Pearl Harbor*, Shippensburg, PA: White Mane Publishing.

J.M. Waller Associates and Mason Architects, Inc. 2003. *Building Preservation Plan of Selected Historic Homes for Hickam Air Force Base*. Honolulu: Hickam Air Force Base.

Office of the Deputy Installation Commander, Fort Shafter. 1974. *A History of Fort Shafter 1898-1974, Appendix I: History of Fort Kamehameha*.

Wheeler Army Air Field Plan Files. 1916. Drawings "Field Officers' Quarters." Drawing # 1466-5 through 1466-9. 12 December.

\_\_\_\_\_. 1917. Drawings "Field Officers' Quarters." Drawing # 1466-1 through 1466-4. 6 January.

\_\_\_\_\_. 1919. Map "Layout of Post." September.

**Project Information:** This report was prepared as part of a project to privatize all military housing under the control of the 15 Airlift Wing. Approximately 656 of the 1332 base housing units to be privatized are within the Hickam Historic District or the Fort Kamehameha Historic Housing District. Because the units within the historic districts will be altered, a representative unit of each type was selected for preservation; to be restored as part of the Cultural Resource Management Plan for Hickam's Historic Districts. This report documents the building before its restoration. The photographic documentation was undertaken by David Franzen, photographer. Dee Ruzicka, Architectural Historian at Mason Architects, Inc., wrote the written documentation and conducted field work (November 2005 – January 2006) and research for this report.

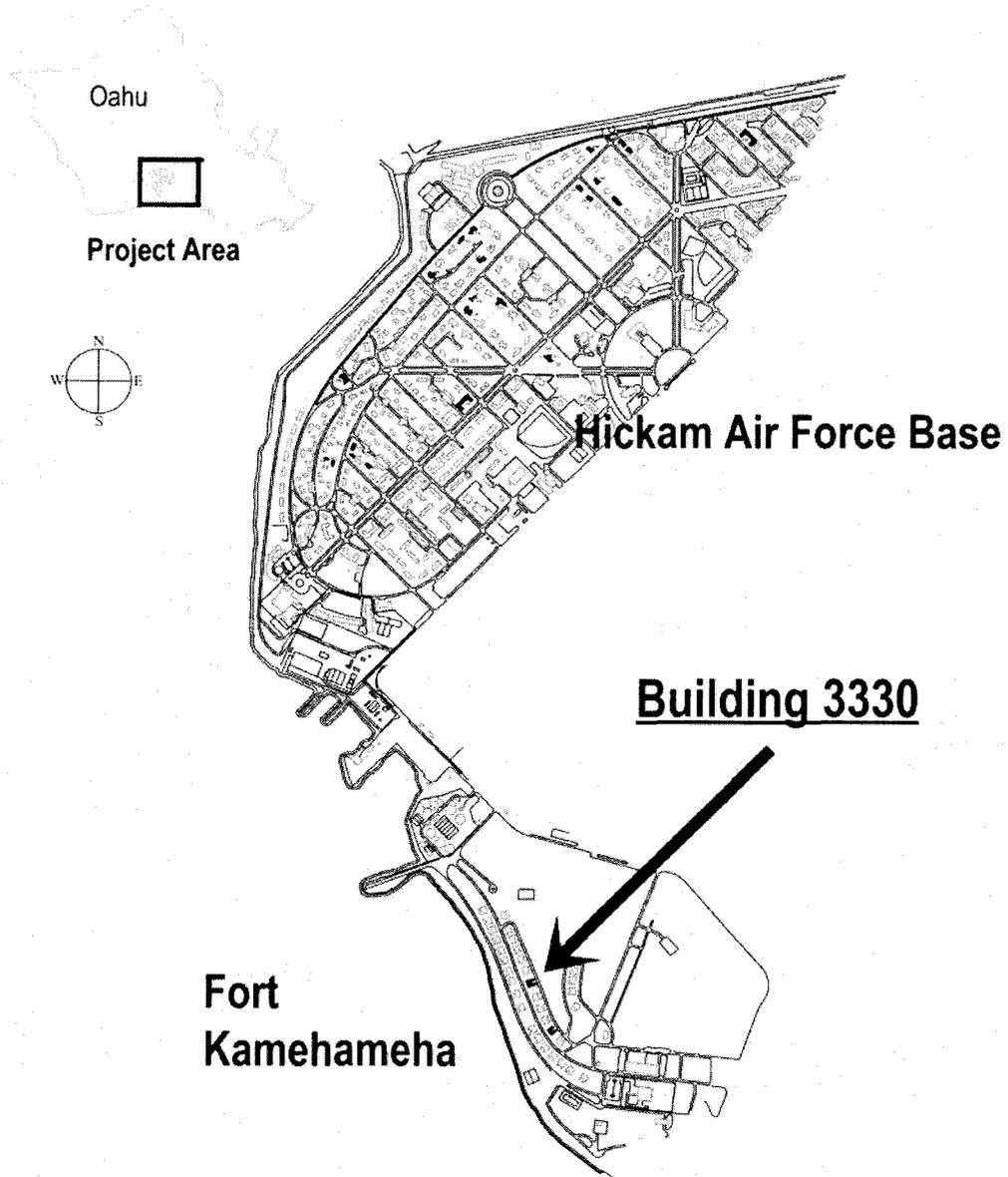
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Date of Report: April 2007

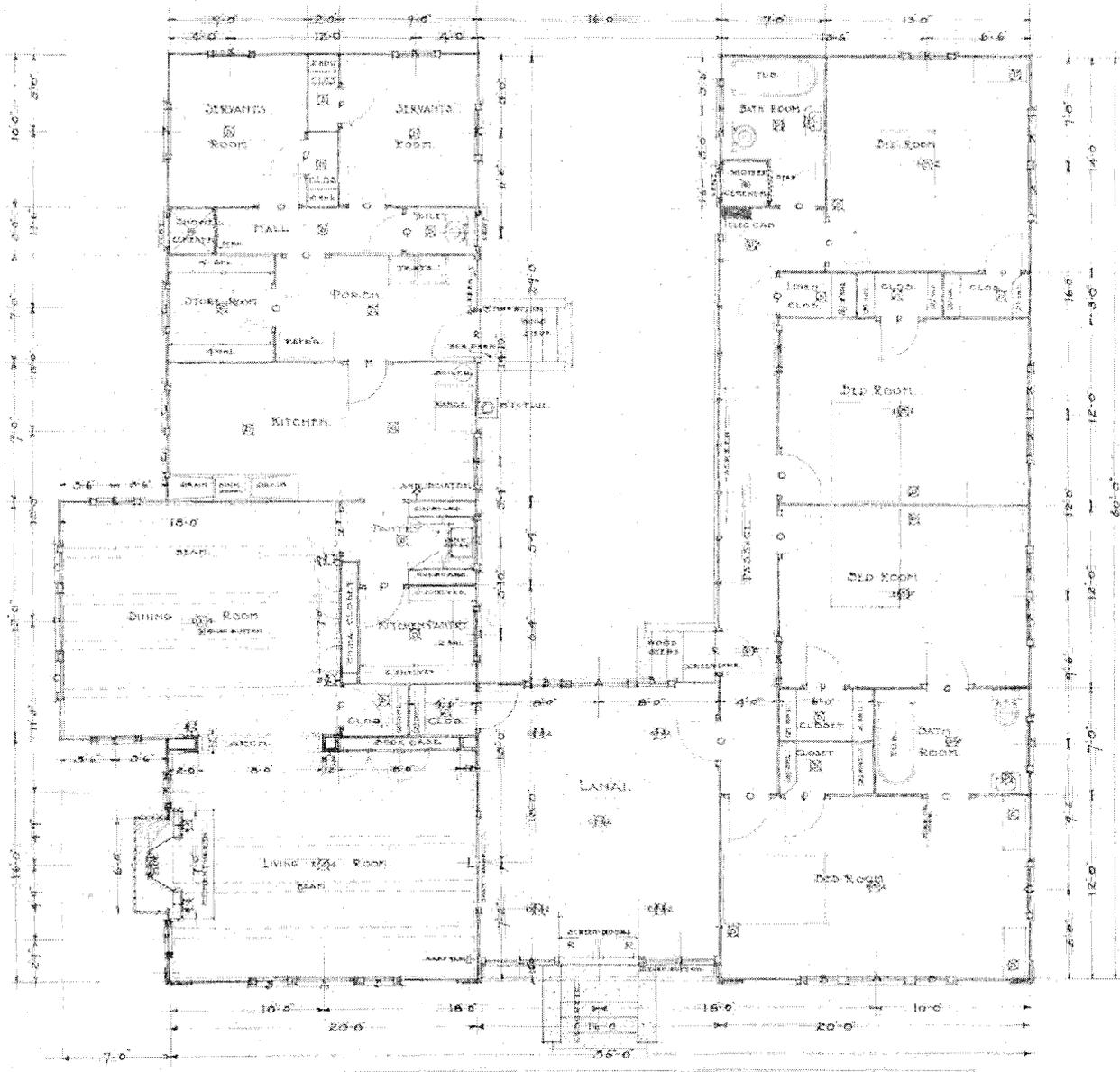
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Building 3330 location map (not to scale)



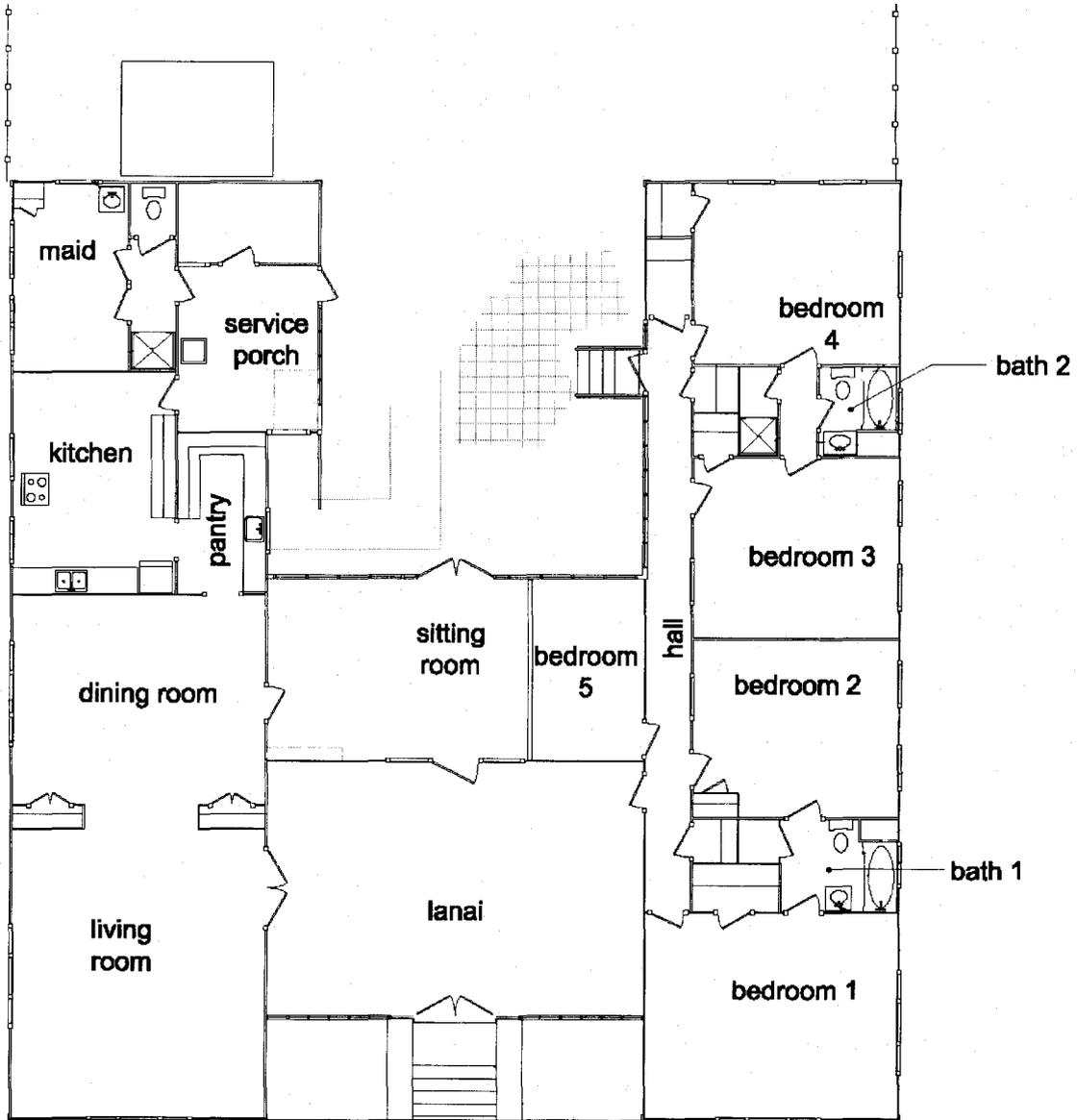
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Original floor plan for Building 3330, Type Z, dated January 6, 1917. Note that this floor plan is for quarters planned for Schofield Barracks and adjustments to the plan have been made for the Type Z quarters erected at Fort Kamehameha: fireplace omitted, lanai reconfigured and rear door added, dining room, pantry/ kitchen and servant's area reconfigured. Compare with the current plan of the building on the following page. Wheeler Air Force Base Plan Files 1917, 1466-2.



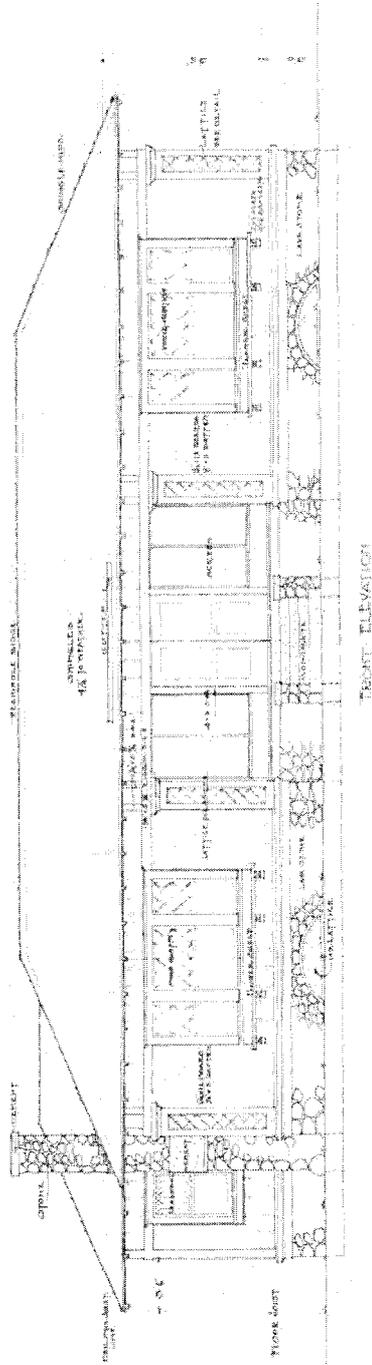
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Current plan of Building 3330. Not to scale.



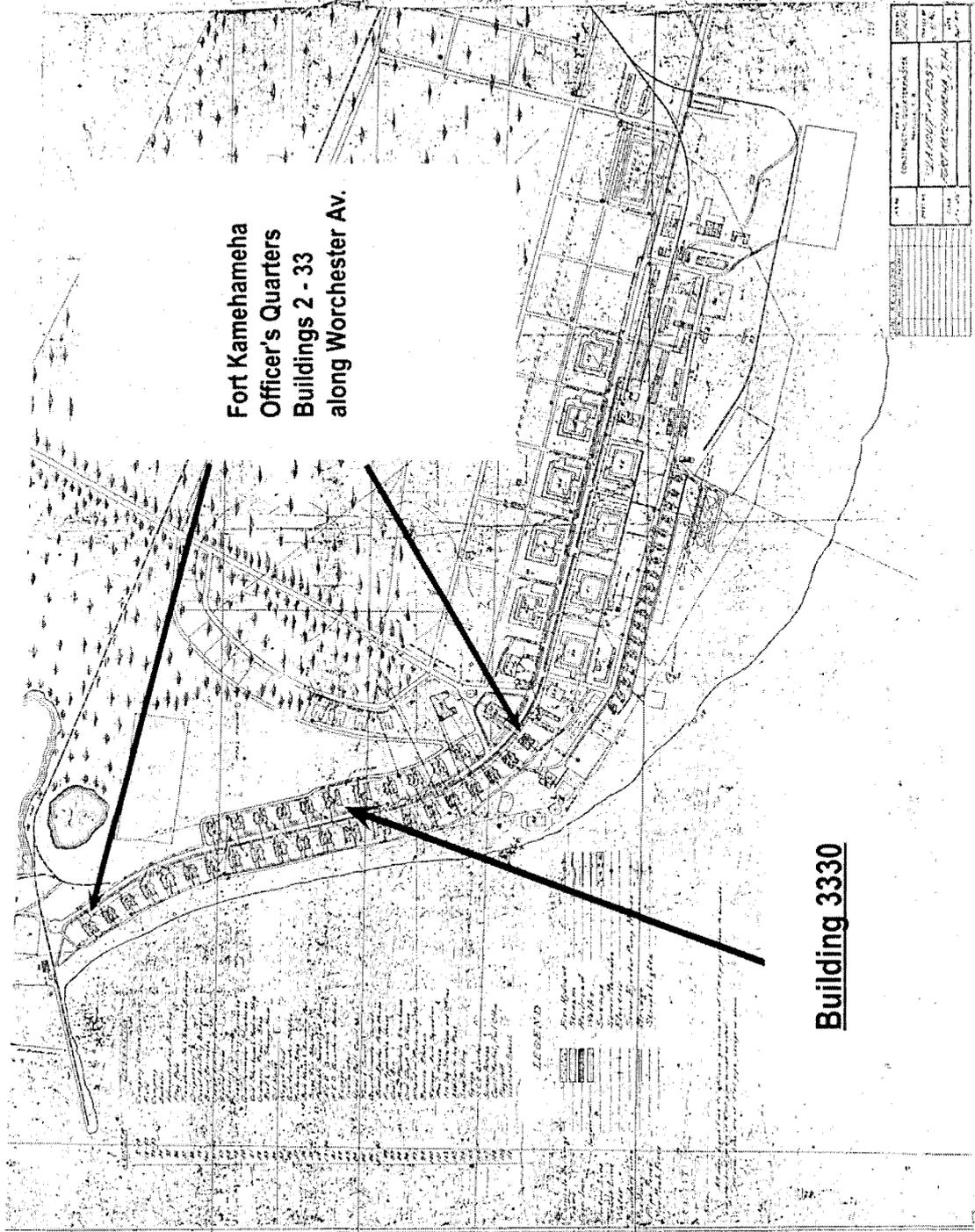
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Original drawing for Building 3330, Type Z, dated January 6, 1917. Note the adjustments to this plan made on buildings constructed at Fort Kamehameha; the fire place and the lattice at the pilasters have been omitted, and the dining room reconfigured. Wheeler Air Force Base Plan Files 1917, 1466-4.



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Portion of historic map of Fort Kamehameha, dated September 1919, showing the Officers' Quarters along Worchester Avenue. Note that Buildings 111 – 114 on Hope Street are shown in outline, probably indicating future construction. Wheeler Army Air Field Plan Files 1919.



Fort Kamehameha  
 Officer's Quarters  
 Buildings 2 - 33  
 along Worchester Av.

Building 3330