

U.S. NAVAL BASE, PEARL HARBOR, NAVAL HOUSING AREA MAKALAPA,
STRAIGHT TWO-BEDROOM DUPLEX TYPE O HABS No. HI-355-N
(U.S. Naval Base, Pearl Harbor, Naval Housing Area Makalapa, Facility Nos.
36 and 37)
South End of Kamakani Place
Pearl Harbor
Honolulu County
Hawaii

HABS
HI-355-N

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN BUILDINGS SURVEY
Pacific Great Basin System Support Office
National Park Service
San Francisco, CA 94107

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STRAIGHT TWO-BEDROOM DUPLEX TYPE O
(U.S. Naval Base, Pearl Harbor, Naval Housing Area Makalapa, Facility Nos. 36 and 37)

HABS No. HI-355-N

Location: The Makalapa Housing Area, located west of Kamehameha Highway and east of the H-1 freeway, is part of the Pearl Harbor Naval Complex, on the south side of the island of Oahu, state of Hawaii. It lies outside the boundary of the Pearl Harbor National Historic Landmark. The two Type O duplexes are Facility 36, located at 9A&B Kamakani Place, and Facility 37 at 10A&B Kamakani Place. These two houses are located at the end of a cul-de-sac, and are placed at an angle to the street (see HABS No HI-355 for a general location map and a map of the area). The buildings in this report are located within the UTM coordinates of the Makalapa Housing Area as defined in the location section of the main report HI-355.

Significance: This housing type is significant as an example of Hawaiian residential architecture during the 1940s, in a grouping of related types. The design is notable for the use of new materials and minimal ornamentation, with a traditional overall appearance. The design accommodated prefabricated components and assembly line building techniques, reflecting the need for rapid construction in this period of build-up to World War II. These duplexes represent the later work of one of Hawaii's master architects, C.W. Dickey. The buildings respond well to Hawaii's temperate environment, although their design was also influenced by the factors mentioned above. The significance of this design also relates to the patterns of military rank, with the junior officers' duplexes having notable differences in size and design elements from the other officer housing.

Description: The Makalapa Housing Area is made up of numerous types of one- and two-story single-family and duplex residences. The Type O buildings are one of the three types of duplex residences in Makalapa. There are only two buildings of this type, Facilities 36 and 37. These two-bedroom duplexes have the units in a straight line, rather than angled, as in Type N. Type O buildings are described in detail below. For a description of the neighborhood's overall appearance, see HABS No. HI-355.

The plan for this duplex is linear with the units rotated 180 degrees from one another. Each unit is a combination of a small second-story plan over a larger one-story footprint. The combination of one- and two-story sections creates a complex roof form that is visually interesting. Facilities 36 and 37 are set at an angle to Kamakani Place, each located behind a 2-car carport sited parallel to the street. The two entry porches project off the front of the buildings at each end (not as shown on the original drawing). The net floor area for each Type O unit is 1,653 square feet. The maximum dimensions of the building footprint, not including front porches, are 96'-5 1/2" x 22'-10". The building, however, is not a simple rectangle; there is a projection towards the front for one unit, and toward the rear for the other. The units have abutting storage and utility rooms on the first floor and abutting closets and bedrooms on the second. Each unit has a kitchen, dining room, living room, bathroom, maid's room, hall, closets, storage room, and utility room on the first floor. The second floor

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of each unit contains two bedrooms, one bathroom, and a closet in the hall, in addition to the ones in the bedrooms.

These houses are built on post-on-block foundations. Facility 37 has a large enough grade change to have its foundations screened by alternating wide and thin boards. This building type is constructed entirely of wood. The first-floor exterior walls have horizontal flush siding (either tongue-and-groove or shiplap boards), while the second-floor walls have the 6-½" drop siding, which is used for the second floor throughout the housing area. Like all houses in the neighborhood, these buildings have hipped roofs with wide eaves, overhanging the walls by 3'-0". There are two levels of hipped roofs due to the smaller second story. The original wood shingle roofing material has been replaced with asphalt shingles. Low-slope pent roofs are located between the first and second floors, and are covered with sheet metal roofing. The original drawings for this element call it a "lookout," and show these slightly sloped roofs were originally built with "½" waterproof plywood" and the joints covered with 1" x 2" battens "set in white lead." The 2 x 8s supporting the pent roofs are tapered on the top (about 4" over the 3'-0" width) to provide the slope. The same slight slope is used for the rear porch roofs. The front porch roof extends from the first-floor hip roof, but at a shallower pitch. Wood posts support the front and rear porch roofs; grid-like trellis walls provide additional support at the front. The rear porches have a dividing wall of horizontal flush siding that also provides support to the roof. Fascia boards cover the ends of all rafters and pent roof supports. Groupings of small circular screened vents are located between every three rafters to provide ventilation to the attic.

The front entry doors originally had two lights over two panels, but some units have had flush doors installed. Rear doors are typically single-light over single-panel doors. Doors have simple wood casings, and wood framed screen doors on the exterior. All porches have a grid-like railing and the front porches have grid-like trellises on each side. The windows are mostly one-over-one-light wood sash, with simple wood casings and wood-framed screens on the exterior. Distinctive elements of the duplex types are the high, narrow, screened openings that ventilate the walk-in closets on the second floor. These horizontally oriented openings have wood louvers on the interior. Some have hopper-style wood covers on the interior that can be used to close the opening.

Facility 37 was the only Type O interior to be observed. It is expected but not certain that the interior elements for other duplex of this type are similar. The interior is as simple and straightforward as the exterior design. A central closed stair leads to the second story. The living room and dining room create an L-shaped space. The dining room in one unit is oriented to the street, while in the other unit it faces the rear. The original wood floors and the linoleum flooring in the kitchen have been replaced with vinyl tiles; the original linoleum remains only in the bathrooms. The interior walls still have the original ¼" plywood panels throughout; shower and bathtub stalls have the "masonite tempered pressed wood" as noted in the original drawings. In most instances the canec ceilings have been replaced with drywall; the kitchen and bathrooms ceilings have their original plywood ceilings. The simple base, shoe, and crown moldings remain intact throughout the house. In some areas vinyl base has been applied over the existing wood base for decorative purposes. Interior doors are all hinged, single-panel wood doors, with two exceptions. There is a swinging single-panel door between the dining room and kitchen. The linen closet in the upstairs bathroom has a pair of flush wood doors.

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The stair has an attached wood handrail with metal brackets. A 2" diameter cylindrical wood rail is attached atop a ¾" x 3-½" wood cap on the second-floor solid stair railing. The closet in the Maid's room and the one in the smaller upstairs bedroom are affected by their location above and below the stair. The height of the maid's closet is limited, and a portion of the upstairs closet does not reach the floor, due to the space required for the stair.

The kitchen retains many original elements, including cabinets, built-in breakfast nook, and counters with metal edging over laminate that extends to a 12"-high backsplash. Bathrooms on both floors have the original shower stall and bathtub, although they have been remodeled with new fixtures and finishes. Additional interior features of this house type include: scored wood valances over the tops of the windows and a built-in, three-shelf bookcase at the base of the stair in the living room.

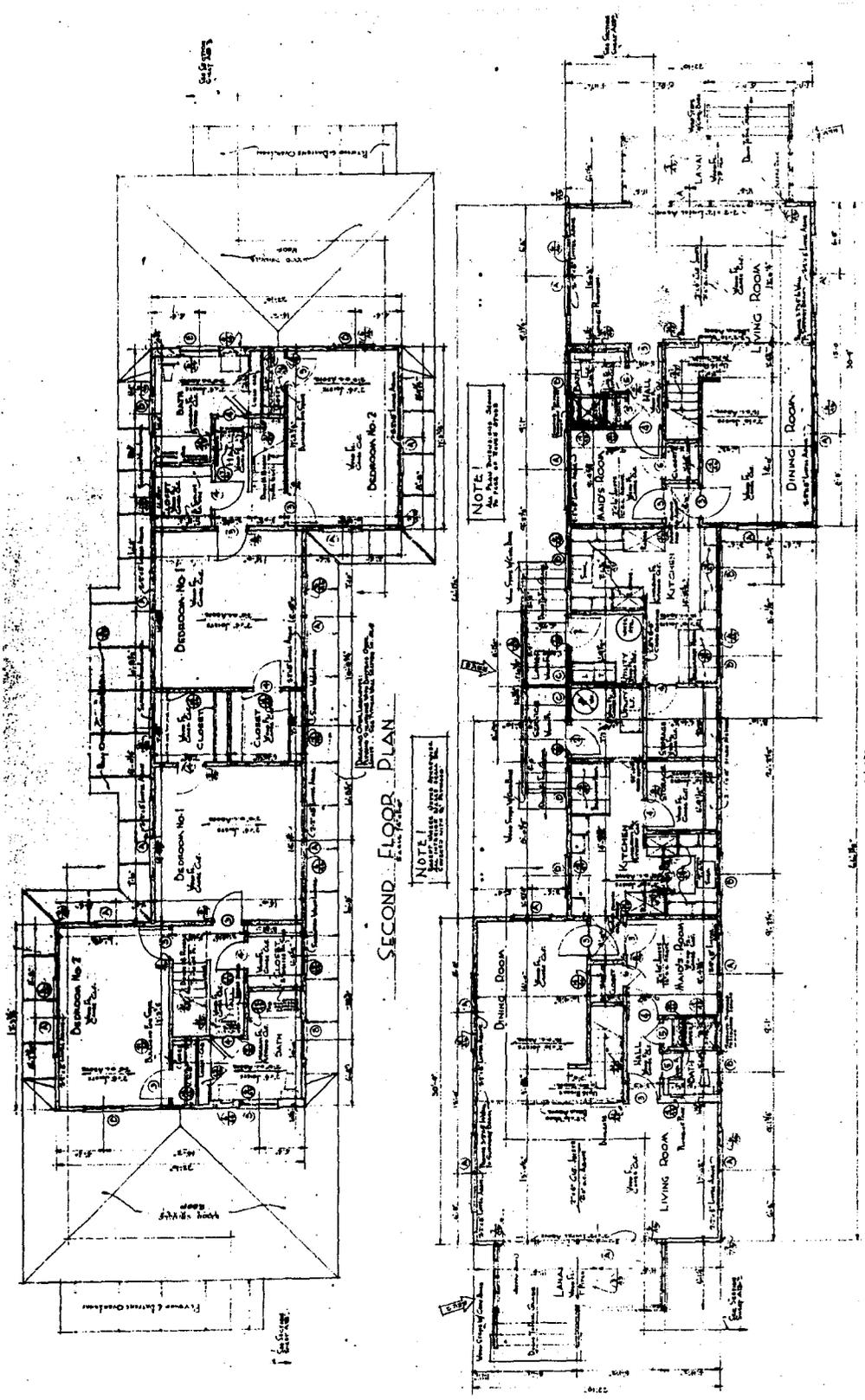
History: See HABS No. HI-355 for a history of the Makalapa Housing Area. These Type O duplexes are one example of the Junior Officers' Quarters during World War II. Their plan and orientation distinguish them from the other duplexes in the housing area. Apparently adaptations were made in the field during the construction of these two housing facilities. Revision notes to the original drawings indicate alternate entry locations. The main entry porches were not built on the sides of the building, but on the front at each end. Since their construction, these residences have undergone relatively few alterations.

Sources: Architectural Drawings: Original drawings and any drawings completed up to the present for building renovations by the U.S. Navy are located at the Pacific Division Naval Facilities Engineering Command, Plan File Room, Pearl Harbor Hawaii. Copies of the original floor plans, elevations, a section drawing, and 1959 as-built floor plans are included in this report.

Historian: Joanmarie Orlowski, Mason Architects, Inc., June 2000.

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First- and Second-Floor Plans, Original Drawing
 Dwg. No. 2862. Straight 2-Bedroom, First- and Second-Floor Plan, 10/03/41

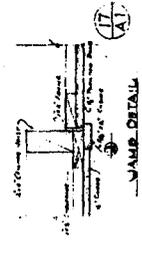


NOTE: THESE STAIRS BELONG TO THE ADJACENT UNIT.

NOTE: THIS IS THE LOCATION OF THE STAIRS TO THE ATTIC.

FIRST FLOOR PLAN

NOTES ON REVISED LANAIS:
 THE REVISIONS TO THE LANAI ARE SHOWN BY THE DOTTED LINES.
 THE LANAI IS TO BE CONSTRUCTED AS SHOWN BY THE DOTTED LINES.



NOTE: SEE SPECIFICATIONS FOR THE FINISHES AND CONSTRUCTION DETAILS.

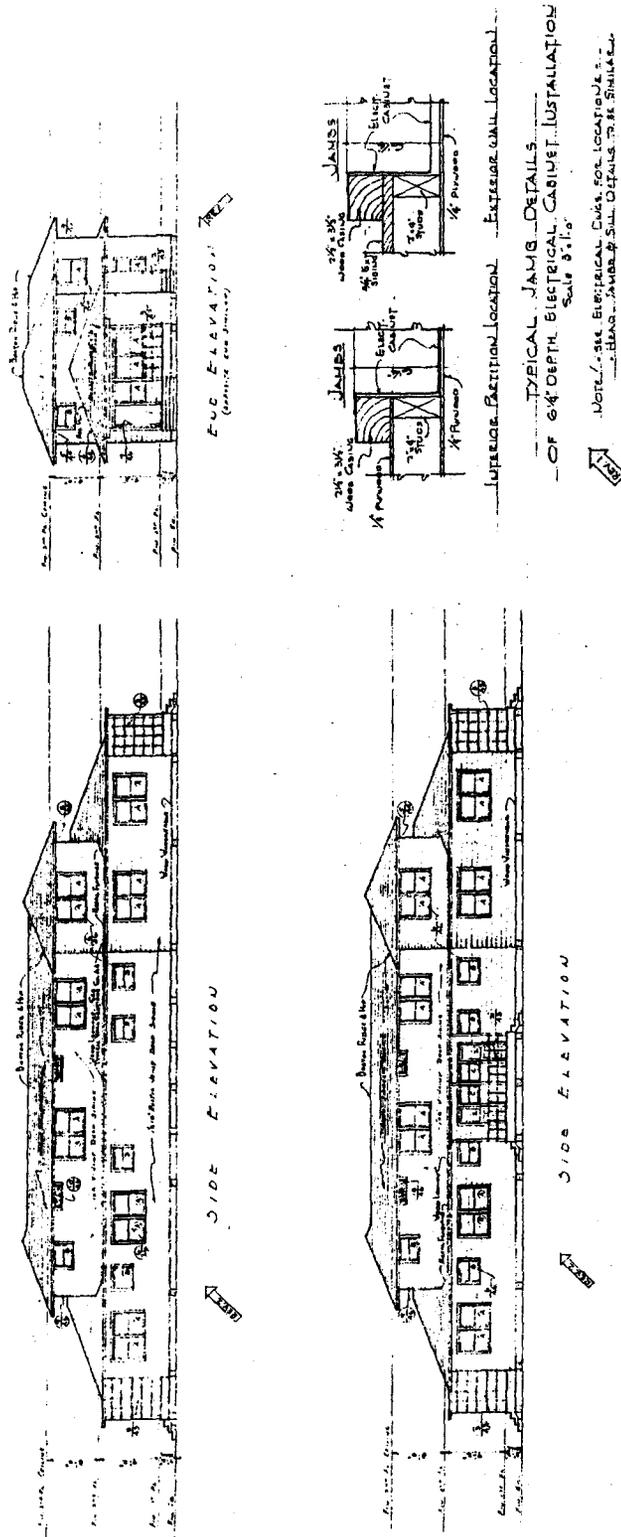
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Exterior Elevations, Original Drawing (partial)
 Dwg. No. 2863. Straight 2-Bedroom, Exterior Elevations and Roof Plan, 9/11/41



Addendum to
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HABS
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BLACK AND WHITE PHOTOGRAPHS
WRITTEN HISTORICAL & DESCRIPTIVE DATA

HISTORIC AMERICAN BUILDINGS SURVEY
U.S. Department of the Interior
National Park Service
Oakland, California

Addendum to
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Facility Nos. 36 and 37

The drawings of this report are an addendum to a seven page report previously submitted to the Library of Congress.

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Date of Construction: 1941-1942

Designer: Charles William Dickey

Builder: Contractors, Pacific Naval Air Bases

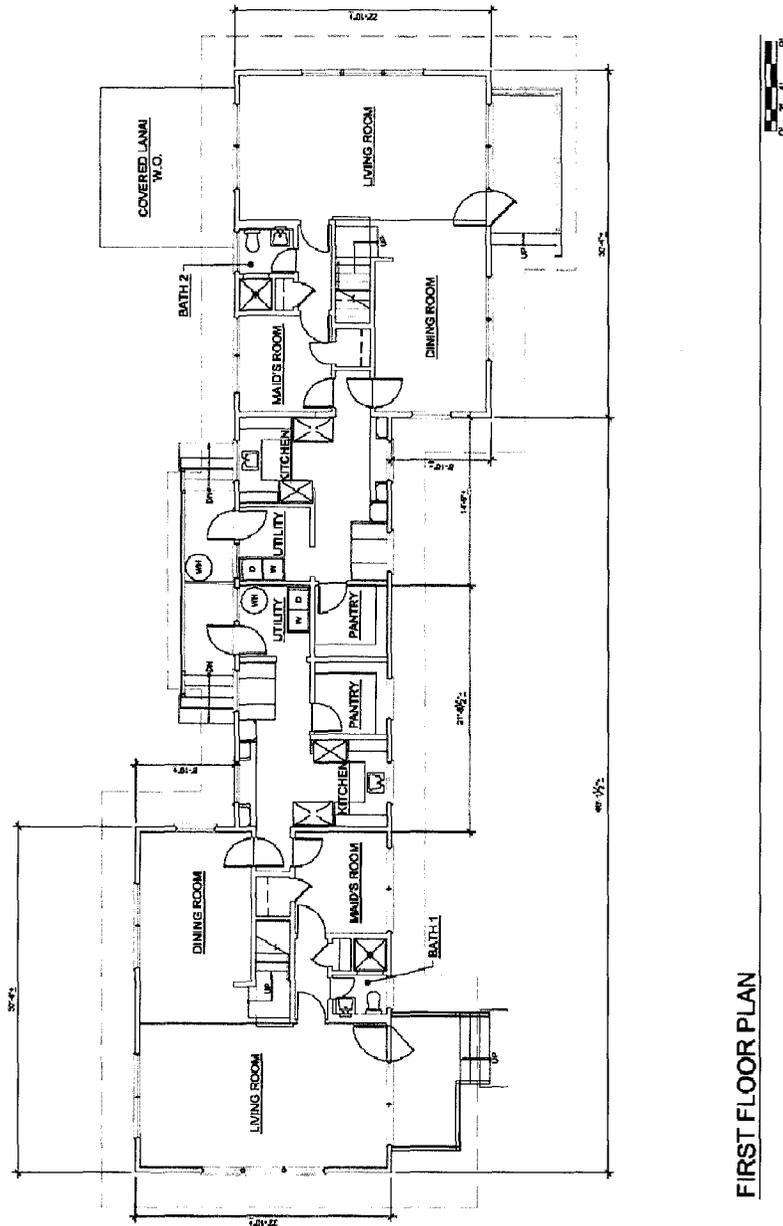
Present Owner: U.S. Navy

Present Use: Military housing

Significance: This housing type is significant as an example of Hawaiian residential architecture during the 1940s, in a grouping of related types. The design is notable for the use of new materials and minimal ornamentation, with a traditional overall appearance. The design accommodated prefabricated components and assembly-line building techniques, reflecting the need for rapid construction in this period of build-up to World War II. These duplexes represent the later work of one of Hawaii's master architects, C. W. Dickey. The buildings respond well to Hawaii's temperate environment, although their design was also influenced by the factors mentioned above. The significance of this design also relates to the patterns of military rank, with the junior officers' duplexes having notable differences in size and design elements from the other officer housing.

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First-Floor Plan, Type O.



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Second-Floor Plan, Type O.

