

U.S. MARINE CORPS BASE HAWAII, KANEOHE BAY, GOLF
COURSE EQUIPMENT & REPAIR SHOP
(Building No. 477)
Reeves & Moffett Roads
Kaneohe
Honolulu County
Hawaii

HABS HI-311-F
HI-311-F

HABS
HI-311-F

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN BUILDINGS SURVEY
PACIFIC WEST REGIONAL OFFICE
National Park Service
U.S. Department of the Interior
1111 Jackson Street, Suite 700
Oakland, CA 94607

HISTORIC AMERICAN BUILDINGS SURVEY

U.S. MARINE CORPS BASE HAWAII, KANEOHE BAY, GOLF COURSE EQUIPMENT & REPAIR SHOP (U.S. Marine Corps Base Hawaii, Kaneohe Bay, Building No. 477)

HABS No. HI-311-F

- Location:** Reeves & Moffett Roads
U.S. Marine Corps Base Hawaii
Kaneohe, Honolulu County, Hawaii
- U.S. Geological Survey, Mokapu Pt. HI 1998 quadrangle, 7.5 minute series Universal Transverse Mercator coordinates: 04.629140.2372430
- Present Owner:** The United States Marine Corps
- Present Occupants:** The United States Marine Corps
- Present Use:** YMCA and Pre-school facility
- Significance:** Building 477 was built from Quonset huts which were erected on Kaneohe Naval Air Station during the late years of World War II. Thousands of Quonset huts were erected as temporary buildings worldwide during the war and they became the "archetypical military building type of the war" (Albrecht 1995, 25). The Quonset hut is one of the forerunners of the trend to mass-produce building products and standardize erection techniques, and the huts were extensively used at Kaneohe Naval Air Station for housing and training facilities (Yoklavich 1995, 1).
- Description:** Building 477 is a Quonset hut that is set on a concrete slab. Its semi-cylindrical form has an added shed-roofed enclosed area along a portion of its northeast long side. The entire building measures about 114' in length x about 30'-8" in width, which includes the original Quonset hut and the shed-roofed addition. The addition projects 9'-11" from the side wall of the Quonset hut and is 57'-3" long, centered on the northeast side of the building. At each end of the addition are 28'-4" long lanai areas that extend to the ends of the Quonset hut. The lanai are covered by the shed roof, which is supported by columns of concrete hollow tiles. The height of the building at the ridge of the Quonset roof is about 10'-0".
- Building 477 has corrugated metal siding and roofing. The siding is oriented horizontally along the curving long sides of the building and the roofing panels are oriented perpendicular to the siding and the long axis of the building. The Quonset hut has end walls (bulkheads) of horizontal wood siding with screened louver panels at the upper portion. The shed roofed addition has low wall (approximately 2'-0" high) of lava rock topped by a band of fixed light and jalousie windows along its long

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(northeast) side. The building has five jalousie windows on the southwest (long) side. The windows project out of the curving side of the Quonset hut about 1'-0" at their tops and are protected by an awning of corrugated siding. There are seven vents along the ridge of the roof.

The entry to Building 477 is centered on the shed-roofed addition. It is a storefront-type double door with large single lights in each leaf. At both ends of the addition are double flush doors which open onto the covered lanai areas. The curving section of exterior wall of the original Quonset at each lanai area also has a single flush door. At the southeast lanai, a section of vertical wall built of plywood about 12'-0" wide has been added to the original Quonset. This section has a flush door and a plywood-shuttered window with a shelf.

The interior of Building 477 is vaulted at the area of the original Quonset hut and is finished with painted gypsum board panels which follow the rounded contour of the roof there. The panels also finish the inside of the bulkhead walls and the walls and ceiling of the addition. The interior of Building 477 has a large main room with posts supporting the roof at the junction of the Quonset hut and the shed-roofed addition. A smaller meeting room at the southeast end is partitioned off from the main room. Both these rooms are carpeted. The ends of the building are divided into washrooms with painted concrete floors, and storage areas with vinyl tile flooring.

Historical Context:

Building 477 is listed in the Navy database with a "year built" of 1944 (Bureau of Yards and Docks 1963, 3727). This means that it was originally erected at a site other than where it now stands. The building was not on its present site on Reeves Road as of June 30, 1946. (NAVFAC 1946). Three years later Building 477 is shown on the site and listed as a "Golf Course Equipment and Repair Shop." (NAVFAC 1949). The building was apparently originally erected elsewhere on base and moved to its present site sometime between 1946 and 1949. This building is also a product of two (or more) shorter Quonset huts of 20' width which were combined to form the 114' length of Building 477.

In 1963, the building was still configured in its original, Quonset hut shape. Navy records dated June 30 of that year show that Building 477, now designated as a "Golf Clubhouse," still had a 21' width (Bureau of Yards and Docks 1963, 3727). Twenty feet was one of the standard widths for World War II Quonset huts, and a common width for Quonset huts at Kaneohe during that period. Between 1963 and 1971 the shed-roof addition was constructed on the building's northeast side, changing its width to about 30'. At each end of Building 477 the shed-roof addition covered lanai about 28'-0" long. The center 57'-3" of the shed-roof addition was enclosed building space which had an exterior wall of fixed-sash and jalousie windows above a lava-rock stem wall about 2'-0" high. As of 1971 the building was described as a "Teen Clubhouse" (Naval Facilities Engineering Command 1971, drwg 7000869).

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Also at this time the interior of Building 477 was partitioned with toilets at each end of the building, a kitchen at the west end and a lounge area at the east end. In 1982 the existing floor tile was replaced and a high spot in the concrete floor at the point where the shed-roof addition joins the building was leveled (Naval Facilities Engineering Command 1982, drwg 7040678). By this date (1982) an L-shaped counter had been added at the west end of the main room. A later alteration of unknown date installed a dividing wall in the main room, about 50'-0" from the east end wall. Also, a wall was constructed at the counter at the west end of the main room, enclosing and separating the area from the main room.

Quonset Huts

Quonset huts were developed in the early 1940s, based on the design of the British Nissen hut of World War I (Garner 1993, 30), and were first manufactured in mid 1941 (Yoklavich 1995, 2). During World War II Quonset huts were produced in three typical sizes, the 16' x 36', the 20' x 48', and the 40' x 100'. Occasionally, several units would be joined together to provide a more specialized building. On Oahu, a two story type of Quonset hut was used for barracks (Mason Architects 2005, 1.2-8). In late 1943, the standard plans were changed to add four-foot overhangs of corrugated roofing to the 20' x 48' hut to provide protection from rain and sun for the entries at the end bulkheads. This gave a total outside length of 56', but the interior space remained 48' long. Two years later, in 1945, it was determined that the overhangs were superfluous for Quonset huts used in northern or temperate latitudes and they were omitted on huts destined for those areas. The overhangs were retained on the tropical type of Quonset hut and the designation was standardized as 20' x 48' which denoted the interior space of both types even though the tropical hut measured 56' in overall length (Navy Historical Center 2005).

Quonset Huts at Kaneohe Naval Air Station

Over 145 Quonset huts were built at Kaneohe Naval Air Station to help with the war effort. Virtually all were put up during the later years of World War II, between 1943 and the end of the war. A large portion of the Quonset huts (73 buildings) were used for housing of enlisted personnel and dependents. About 28 Quonsets were used for training, and about 33 huts were used as a camp for Sea Bees, the Navy's Construction Battalion personnel who were used to perform construction work in combat areas.

The Quonset huts at Kaneohe Naval Air Station were clustered in several large areas, with scattered huts around the rest of the base. One large area that contained Quonset huts that were used primarily for dependent public quarters for enlisted personnel was located along G Street and Lawrence Road. This area began south of Third Street and continued northward past Mokapu Road almost to Building 455, the former gunnery school.

In 1946 this area contained about 73 Quonset huts of different configurations. Just north of Mokapu Road, on the northwest side of

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Lawrence Road, was a group of sixteen 20' x 48' huts that were listed as "Dependent Public Quarters, enlisted personnel" on a 1949 map (NAVFAC Archives 1949, and NARA College Park 1953). These huts remained until at least March 1956.

In the same area, another group of 20' x 48' Quonset huts for Dependent Public Quarters, enlisted personnel was located on the east side of G Street, between Mokapu Road and Third Street (NAVFAC Archives 1949, and NARA College Park 1953). In 1946 there were 15 Quonset huts here, in a single row along G Street. By 1949 the huts had been moved and re-aligned, changing their layout to a double row with eight huts in each row. This group of Quonset huts remained until sometime between October 1953 and March 1956.

Just to the south of this group, was another which was housing for Dependent Public Quarters and also Non Dependent Barracks for Enlisted Men. These Quonset huts are noteworthy because they were two-story huts. The eight, two-story huts were on both sides of G Street in four sets of two, with a single story Quonset hut latrine and shower between two of the two-story huts. These housing Quonsets and their associated latrine Quonsets were demolished by January 1954 (NAVFAC Archives, March 5, 1946; June 30, 1949; and January 25, 1954).

The last grouping of Quonset huts in this large area of housing is a cluster of thirty 20' x 48' huts near the intersection of G Street and Third Street, just south of the grouping of two-story Quonsets. These were all used for Dependent Public Quarters and were taken down between January 1954 and March 1956 (NAVFAC Archives January 25, 1954 and Naval Facilities Engineering Command March 1, 1956).

Another large concentration of Quonset huts in 1946 was in an area just north of Hangar No. 1. A group of about eighteen 20' x 48' Quonset huts were here which were designated as "Training & Educational Center, 18 huts" in a 1945 listing of Navy buildings. This data book, dated July 1945, is generally accepted to be current to the end of 1944, (Bureau Of Yards and Docks 1945, 1036) indicating that these huts were constructed by the end of that year. This group of Quonset huts began to be removed shortly after the end of the war and they were among the first removed (or relocated) on the base. On June 30, 1949 only eight remained. This is the date that Building 477 first appears on a Navy map and building list. It is possible that Building 477 was assembled from two or more of the Quonset huts which were removed from this area near Hangar 1. By June 1951, only four of the Quonset huts remained in this group, while all huts in all of the other large groups on base were still extant. These last four huts were removed sometime after March 1956.

A third large concentration of Quonset huts at Kaneohe Naval Air Station in 1946 was located on the south side of Sixth Street, just west of Warehouse 250. This group was about forty-five 20' x 48' huts that were built before the end of 1944. They are listed in a 1945 Navy data book

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as "C.B. Quonset hut camp, 33 huts" and as "Training Unit A.S.W., 12 Huts" (Bureau Of Yards and Docks 1945, 1036). By June 1949 the use of these huts had changed to "Dependent public quarters, enlisted personnel" with two of them listed as a "laundry & boiler room" and a "public works storehouse" (NAVFAC Archives June 30, 1949). This group of Quonset huts remained until after February 1954 (NAVFAC Archives February 10, 1954).

Besides these three areas which had large concentrations of Quonset huts, historic photos show that more huts were scattered about the Kaneohe Naval Air Station during the last year of the war and on into the early 1950s. Two of the four Quonset huts which remain on the base were among these huts. Building 584, a 40' x 100' Quonset which is extant and at its original location, is listed in the Navy database as built in 1943 and was described as a General Storehouse in 1949 (NAVFAC Archives June 30, 1949). This Quonset was grouped with another Quonset storehouse (Building 583, which was used for aircraft parts and is now demolished) near the northeast end of the landing mat when they were constructed.

Another World War II Quonset that is extant at its original location on the base is Building 620, a 40' x 100' Quonset built in 1945 as an Aircraft Engine Salvage Shop. Building 620 is located on Sumner Road on the northwest side of the runway. This Quonset was built as part of a group of Ready Magazines, Smoke Drum Storehouses, and Aircraft Revetments in an area between the landing mat and Runway No. 2 (NAVFAC Archives June 30, 1949).

The fourth Quonset hut that is extant on the base is Building 1198, a 40' x 100' hut which is listed as built in 1961 and is located on the site where it was erected. It is not known if the year built date of 1961 represents the original erection of the Quonset or the date of a subsequent re-erection after being relocated.

Of these four extant Quonset huts at Kaneohe Bay Marine Corps Base, Building 620, built on the northwest side of the runway, appears to be the best example of Quonset hut. It is on its original location and appears the least altered.

Sources:

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Drawings for Quonset huts. Drawing number 283470, and 303585. 1944. Located in drawings archive files of Wheeler Army Airfield Public Works Dept, Schofield Barracks, Hawaii.

Naval Facilities Engineering Command, Plan Files

Drawings for Building 477: 7000868 & 7000869 dated December 6, 1971, and 7040678 dated July 21, 1982. Located at Bldg. 346, Pearl Harbor Naval Base .

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Map N1-1-2, "Conditions on March 1, 1956." Located at Bldg. 346, Pearl Harbor Naval Base .

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Photographs Ny10-2817 & 2818, October 20, 1953 in RG 71 CP box 55 folder 1411.

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_____. Panorama photographs 1 of 4, 2 of 4, and 3 of 4, October 20, 1953 in RG 71 CP box 56 folder 1438.

National Archives and Records Administration, San Bruno.

Map OA-N12-210 "Gun Emplacements, Location Plan" of Naval Air Station, Kaneohe, April 8, 1943.

_____. Photographs 5209 and 5211, August 26, 1945 from RG 181/ NAS Kaneohe, accession # 181-58-3158 first folder after binder.

_____. Photograph 5263, August 29, 1945 from RG 181/ NAS Kaneohe, accession # 181-58-3158 first folder after binder.

Naval Historical Center

"Quonset Hut." Web page www.history.navy.mil/faqs, accessed on March 9, 2005.

NAVFAC Archives

Map OA-N1-679 of Naval Air Station, Kaneohe, "Showing conditions on June 30, 1943." Port Hueneme, CA: from 14th Naval District Map books. .

_____. Map OA-N1-1511 of Naval Air Station, Kaneohe, "Showing conditions on June 30, 1946." Port Hueneme, CA: from 14th Naval District Map books.

_____. Map OA-N1-1975 of Naval Air Station, Kaneohe, "Showing Conditions on June 30, 1949." Port Hueneme, CA: from 14th Naval District Map books.

_____. Photo Noy-8511, March 5, 1946 in box T I 8/28, folder "Kaneohe Bay Roads & Shops."

_____. Photo VU-1-4346, January 25, 1954 in box S II 7/7, folder "1954 Kaneohe Oahu T.H. Aerials/ Marine Barracks."

_____. Photo NY10-254-2-54, February 10, 1954 in box S II 6/25 folder "1954 Pearl Harbor/ Building Construction."

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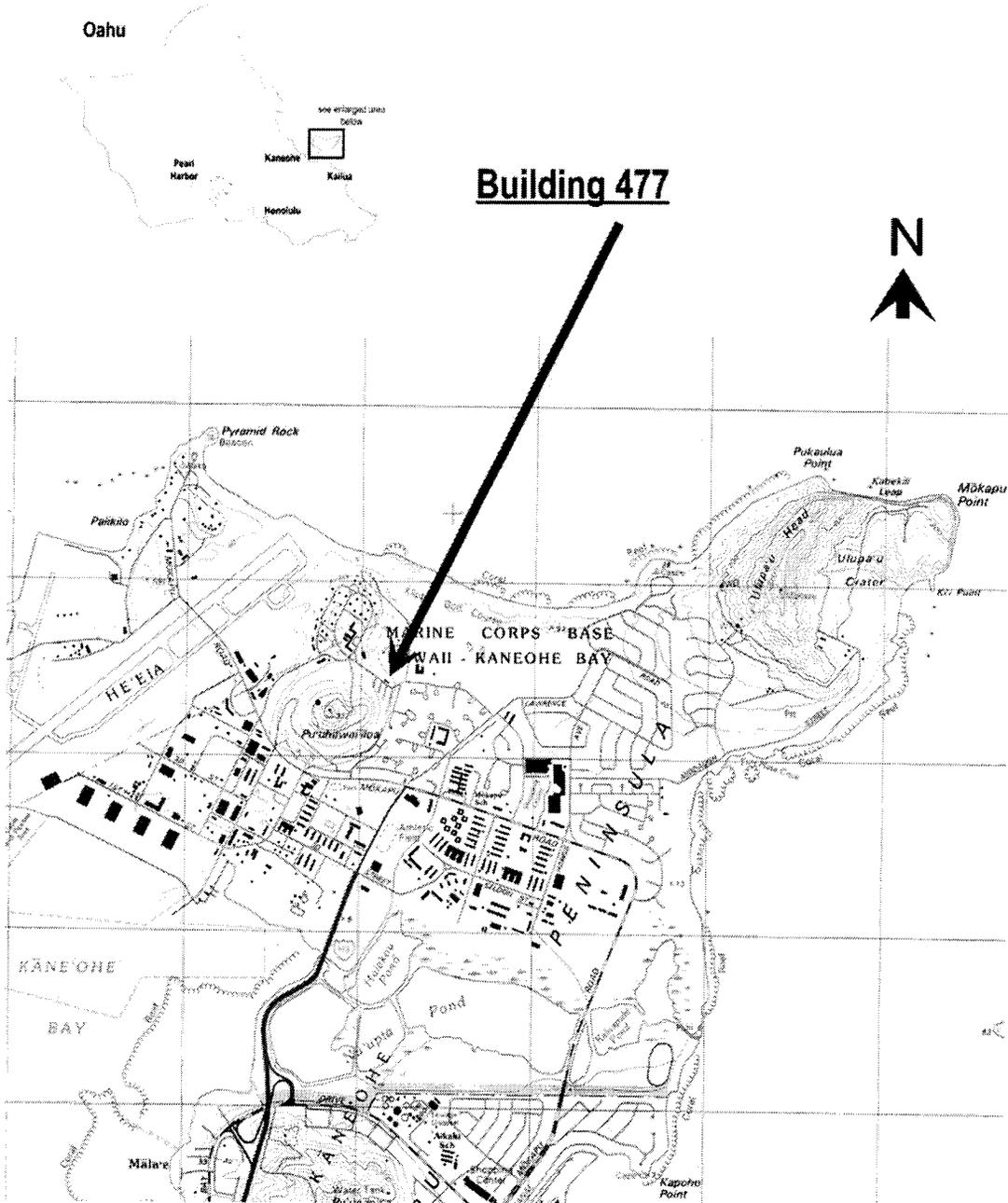
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Project Information: This report was prepared in advance of anticipated renovations or demolition of the building. Photographs for this report were taken by David Franzen in May and June, 2006 and the written portions of the report were researched and prepared by Dee Ruzicka of Mason Architects, Inc., Honolulu, Hawaii.

Date of Report: June 2006

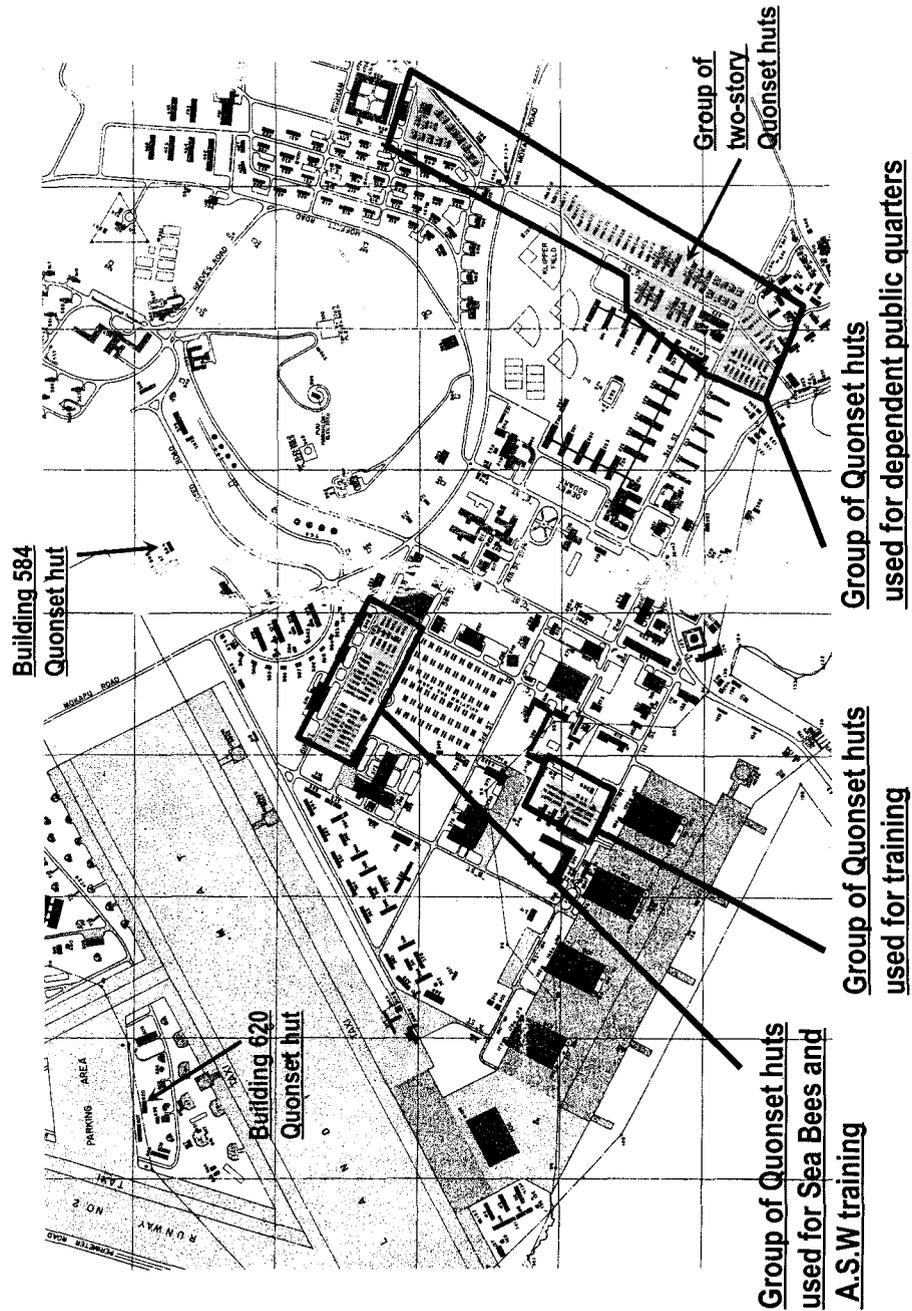
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Location map for Building 477.



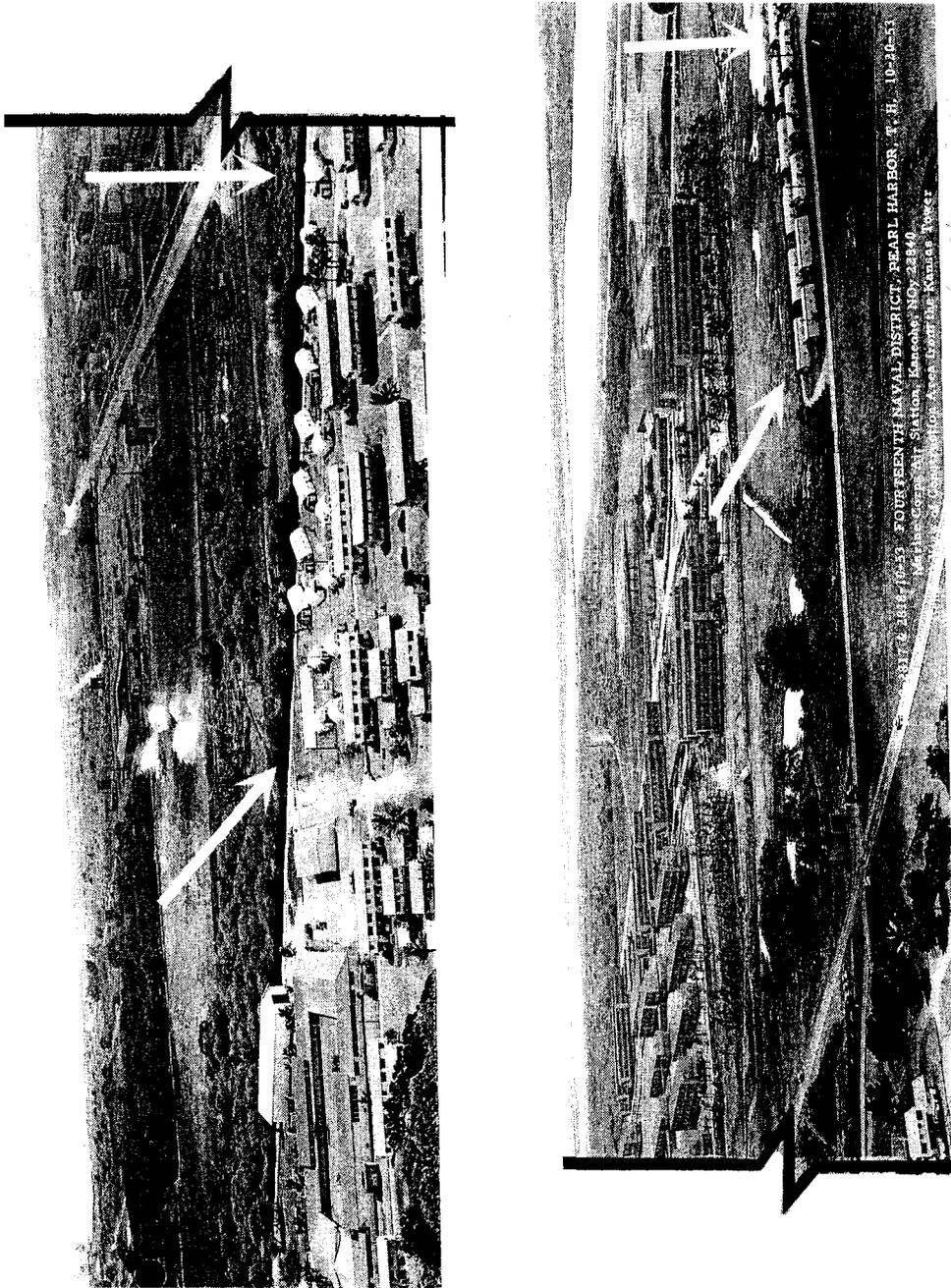
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Portion of historic map dated June 30, 1946. Highlighting (added) shows the location of concentrations of Quonset huts at Kaneohe Naval Air Station at the end of World War II. The locations of Building 584 and Building 620 Quonset huts are also shown. From NAVFAC Archives June 30, 1946, map OA-N1-1511.



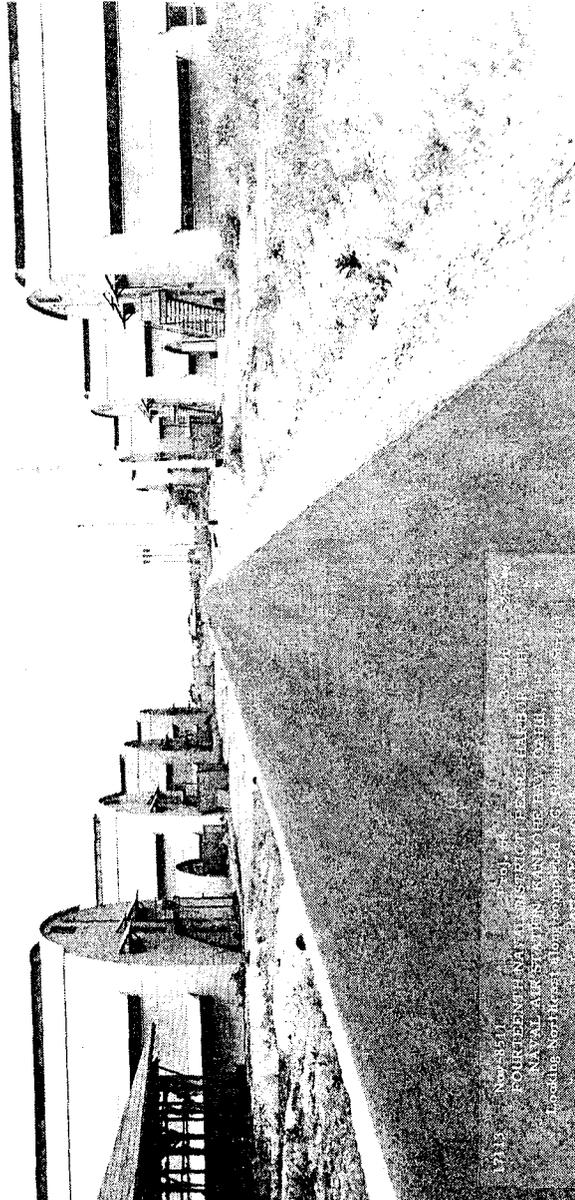
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These panoramic photographs dated October 20, 1953 show the northern portions of the Quonset hut area for dependent public quarters along G Street and Lawrence Road. The Quonset huts are located between the added arrows. View facing southeast, taken from Pu'u Hawaiiiloa. From NARA College Park 1953, photos NY10-2817 & 2818-10-53 in RG 71 CP box 55, folder 1411.



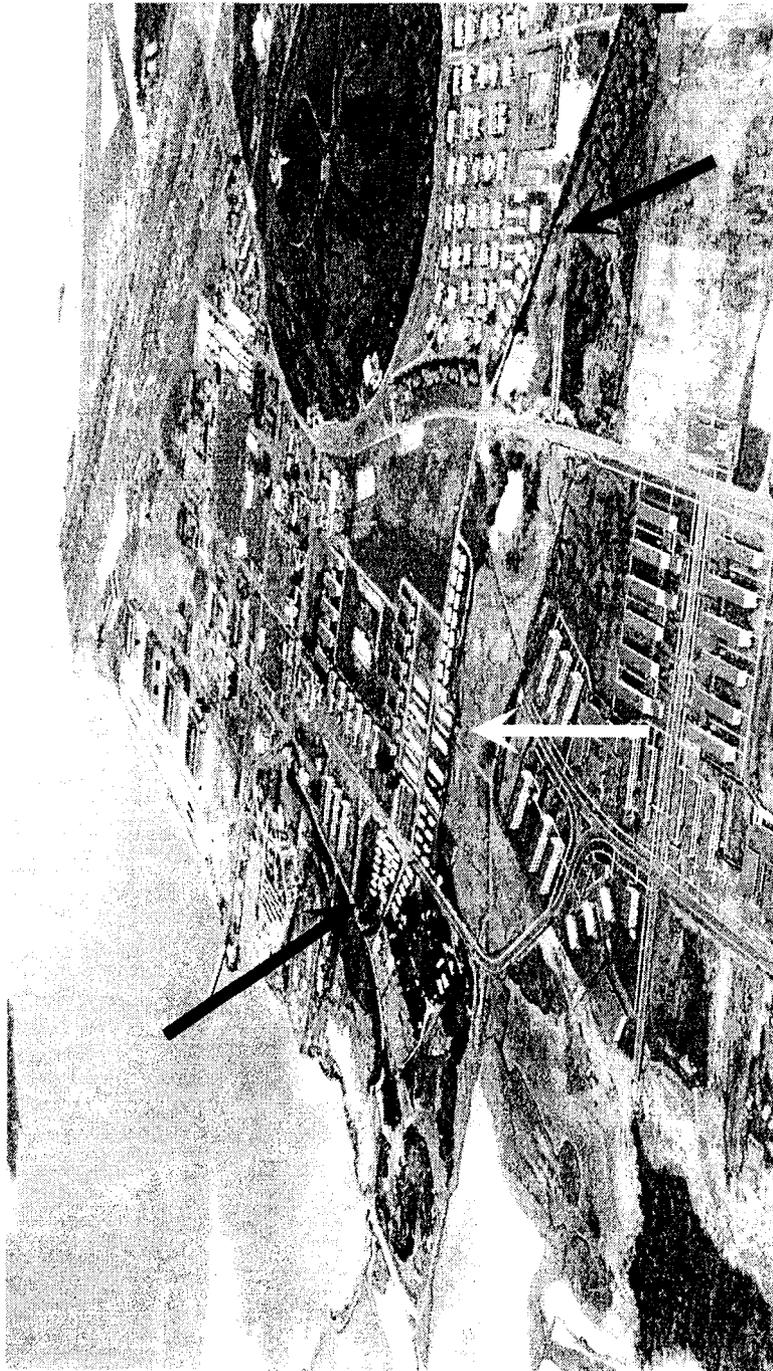
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Historic photo dated March 5, 1946 showing the two-story Quonset huts and single-story Quonset hut latrines along G Street in the group of Quonsets used for dependent public quarters. View facing northeast. From NAVFAC Archives March 5, 1946, photo 17113, Noy-8511, 525-46 in box TI 8/28, folder "Kaneohe Bay Roads & Shops."



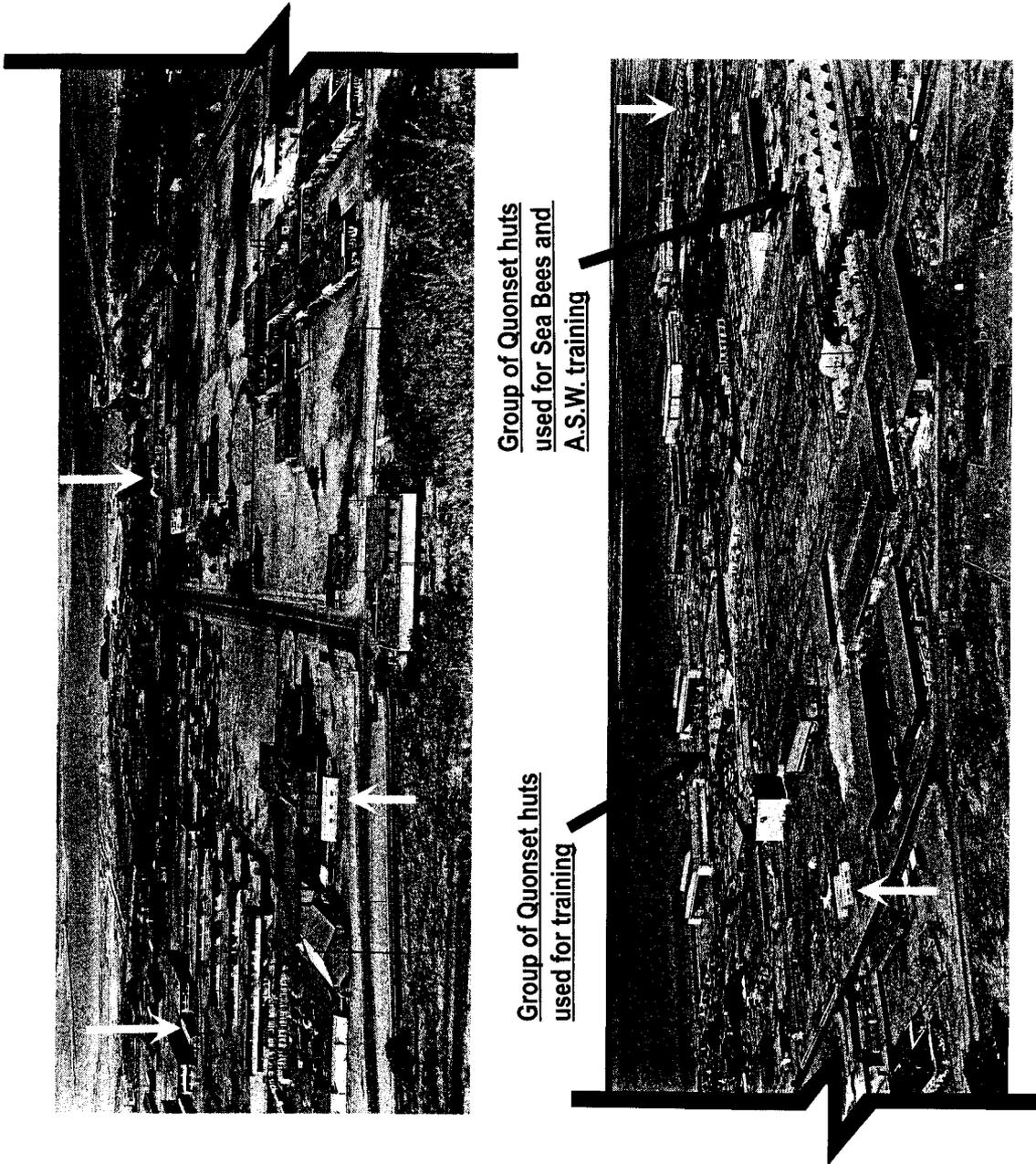
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Portion of historic photo dated January 25, 1954 showing the group of Quonset huts for dependent public quarters along G Street and Lawrence Road. The group is located between the two added black arrows. The white arrow (added) indicates the location of the two-story Quonset huts, which were demolished before this photo was taken. View facing west. From NAVFAC Archives January 25, 1954, photo VU-1-4346 in box SII 7/7, folder "1954 Kaneohe, Oahu, T.H. Aerials/Marine Barracks."



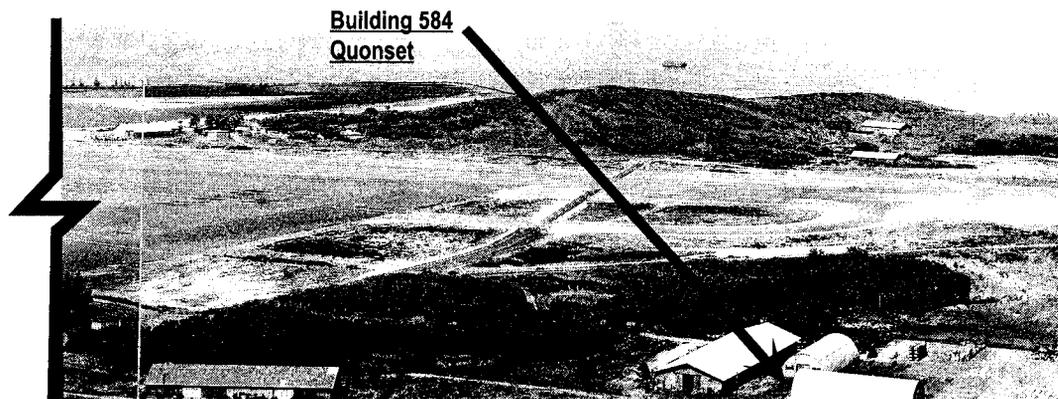
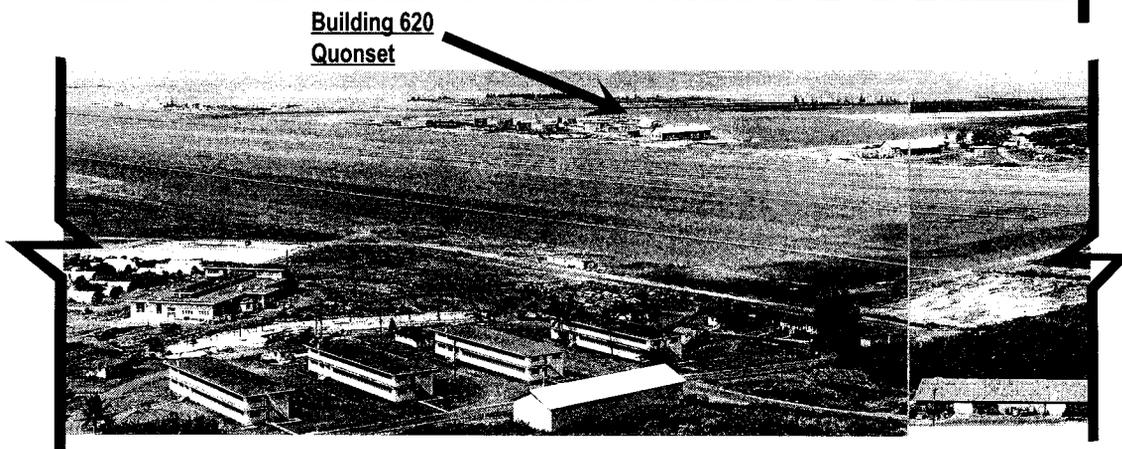
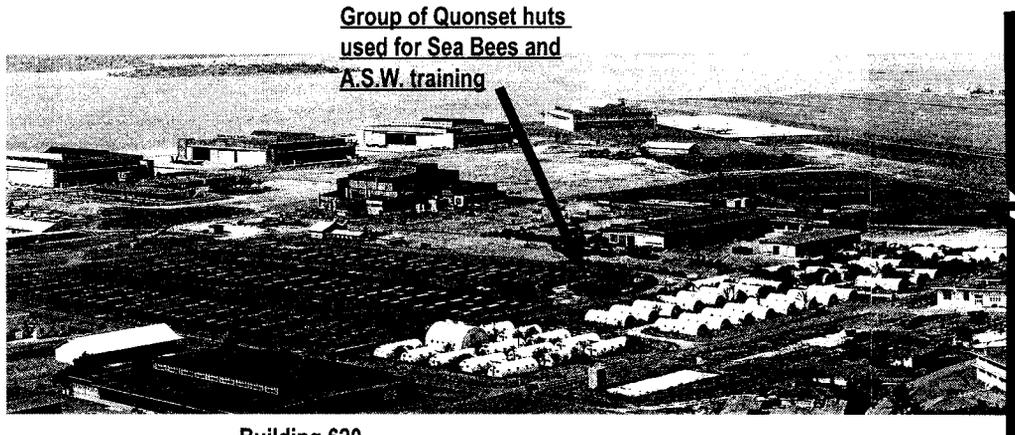
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Panoramic photographs dated August 26, 1945 showing the group of Quonset huts near Hangar No. 1 that were used for training. Also seen is a portion of the group of Quonset hut used for the Sea Bee camp and for A.S.W. training. The added white arrows indicate the location various other Quonset huts around the base. View facing southeast, taken from Pu'u Hawaiiiloa. From NARA San Bruno 1945, photo KNOE 5209 & KNOE 5211 in RG 181/ NAS Kaneohe, #181-58-3158.



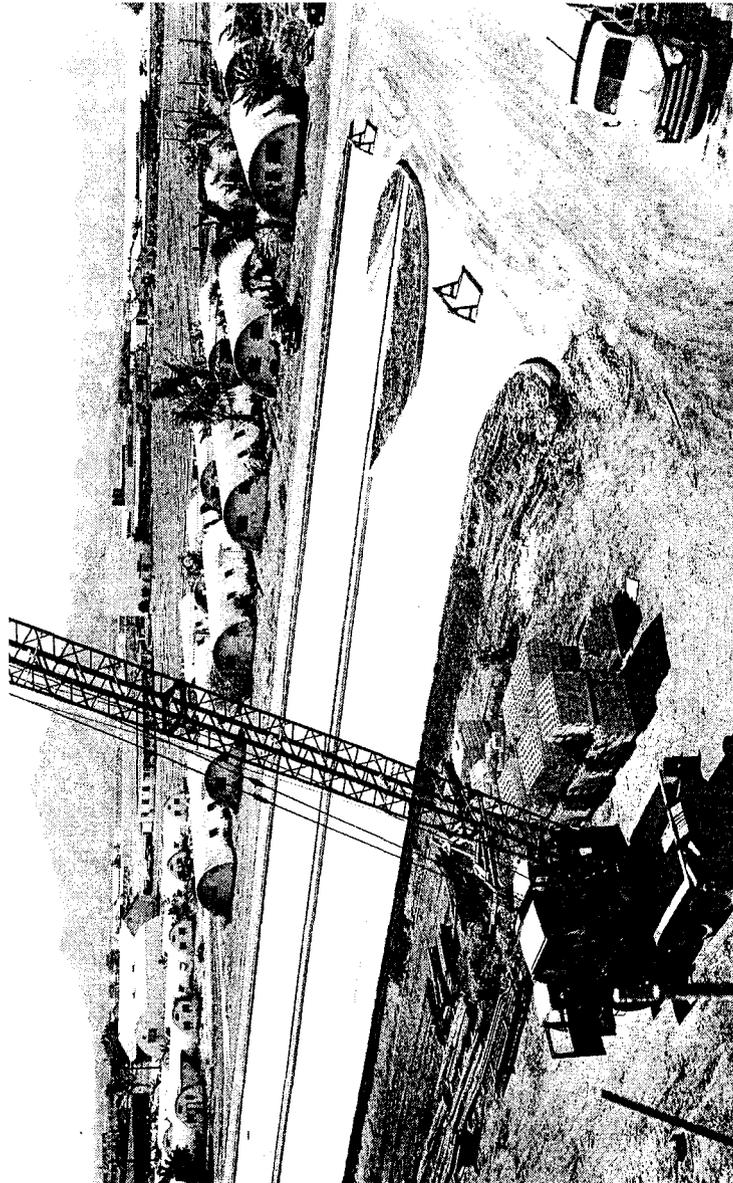
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Panoramic photos dated October 20, 1953 showing the Quonset hut group that was used for Sea Bees and A.S.W. training. Also shown are Building 620 Quonset and Building 584 Quonset. View facing west, taken from Pu'u Hawaiiiloa. From NARA College Park 1953, in RG 71 CP, box 56, folder 1438.



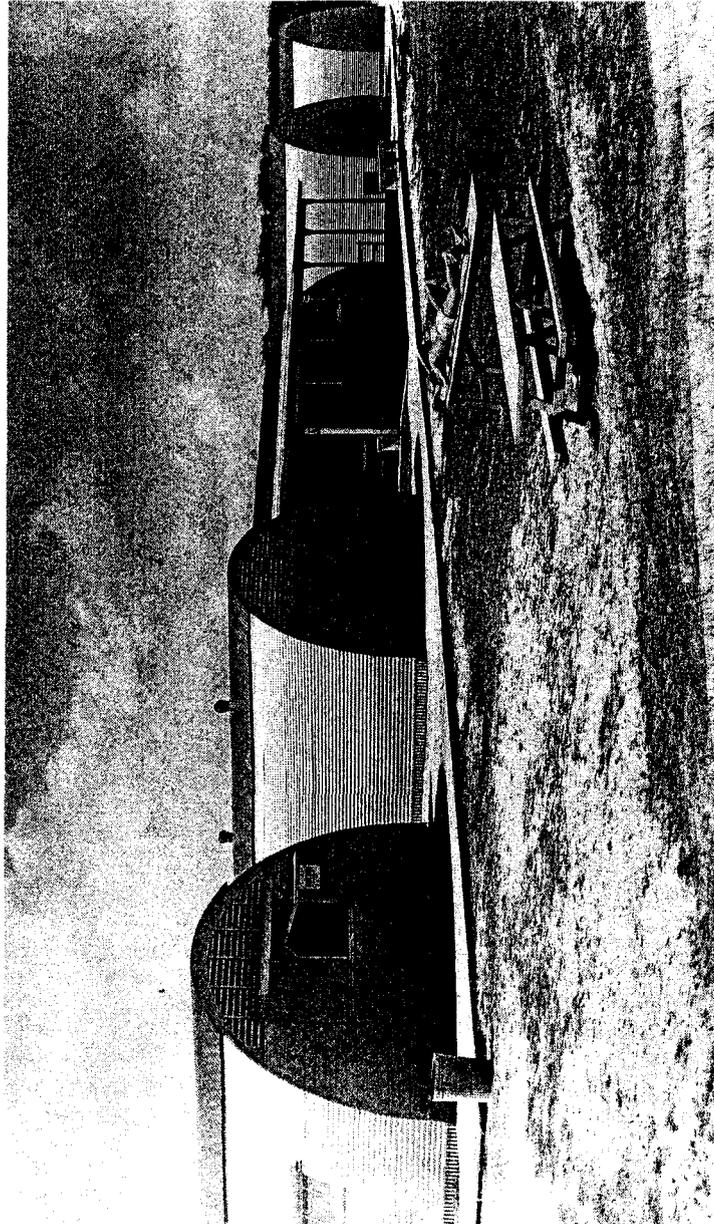
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Portion of historic photo dated February 10, 1954 showing a portion of the group of Quonset huts used for the Sea Bees and A.S.W. training. View facing south. This photograph was taken during the construction of Building 386. From NAVFAC Archives 1954, photo NY10-254-2-54 in box SII 6/25, folder "1954 Pearl Harbor / Building Construction."



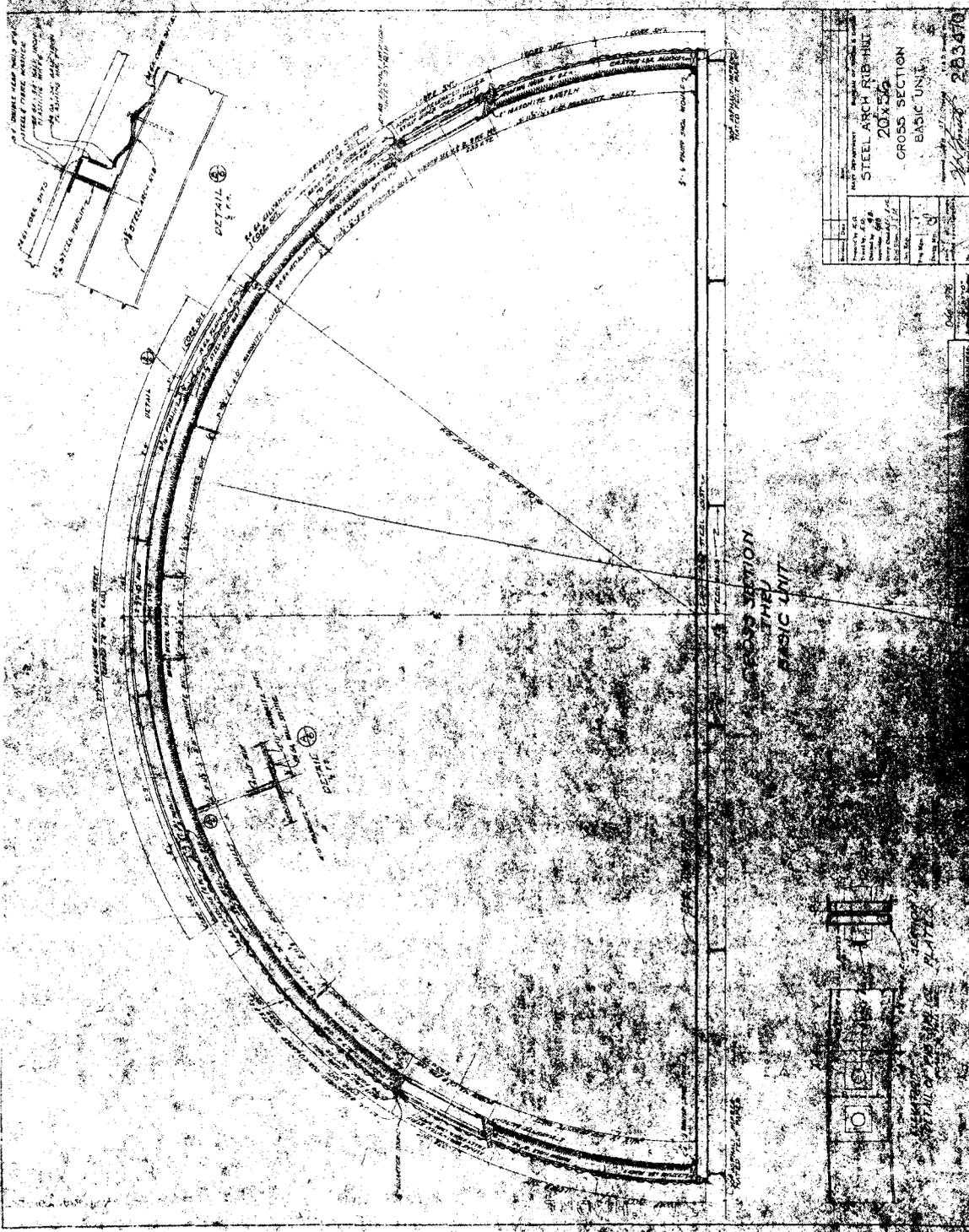
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Historic photo dated August 29, 1945 showing officer's snack bar and dressing huts at Klipper Beach, Kaneohe Naval Air Station. From NARA San Bruno 1945, photo 5263 in RG 181 / NAS Kaneohe, # 181-58-3158.



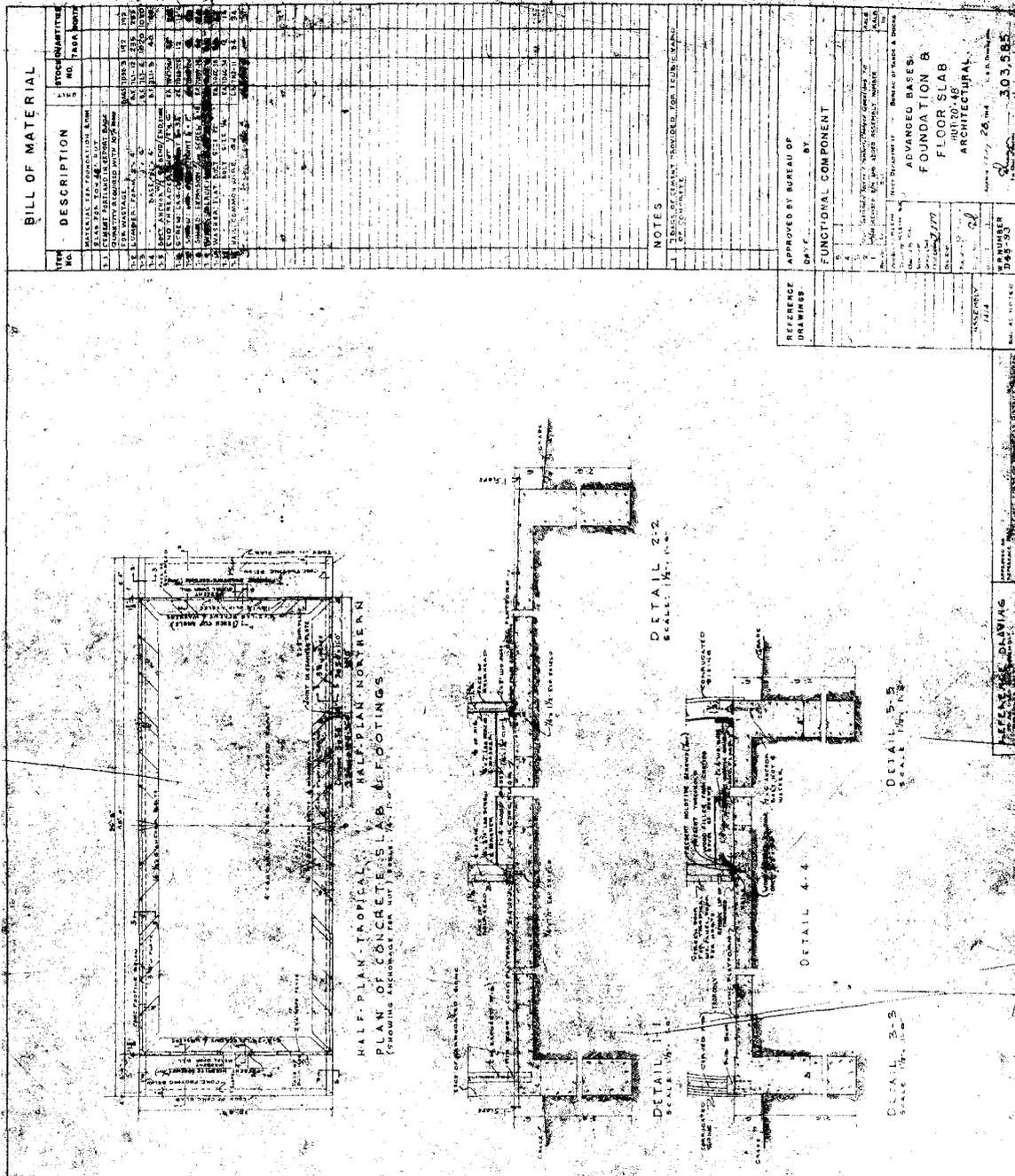
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Cross section drawing of 20' wide Quonset hut, dated January 17, 1944. From Bureau of Yards and Docks 1944, drwg 283470.



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Plan drawing of 20' wide Quonset hut, dated July 28, 1944. From Bureau of Yards and Docks 1944, drwg 303585.



BILL OF MATERIAL		
ITEM NO.	DESCRIPTION	QTY
1	MASSIVE CONCRETE FOUNDATION	1
2	CONCRETE SLAB	1
3	CONCRETE FOOTINGS	1
4	STEEL ROOF STRUCTURE	1
5	STEEL WALLS	1
6	STEEL DOORS	1
7	STEEL WINDOWS	1
8	STEEL TRUSS	1
9	STEEL BRACING	1
10	STEEL BOLTS	1
11	STEEL NUTS	1
12	STEEL WELDS	1
13	STEEL PLATES	1
14	STEEL ANGLE	1
15	STEEL CHANNEL	1
16	STEEL I-BEAM	1
17	STEEL PIPE	1
18	STEEL ROD	1
19	STEEL WIRE	1
20	STEEL SHEET	1
21	STEEL TUBING	1
22	STEEL FLANGE	1
23	STEEL GASKET	1
24	STEEL WASHER	1
25	STEEL LOCKWASHER	1
26	STEEL CONE WASHER	1
27	STEEL CONE NUT	1
28	STEEL CONE WASHER	1
29	STEEL CONE NUT	1
30	STEEL CONE WASHER	1
31	STEEL CONE NUT	1
32	STEEL CONE WASHER	1
33	STEEL CONE NUT	1
34	STEEL CONE WASHER	1
35	STEEL CONE NUT	1
36	STEEL CONE WASHER	1
37	STEEL CONE NUT	1
38	STEEL CONE WASHER	1
39	STEEL CONE NUT	1
40	STEEL CONE WASHER	1
41	STEEL CONE NUT	1
42	STEEL CONE WASHER	1
43	STEEL CONE NUT	1
44	STEEL CONE WASHER	1
45	STEEL CONE NUT	1
46	STEEL CONE WASHER	1
47	STEEL CONE NUT	1
48	STEEL CONE WASHER	1
49	STEEL CONE NUT	1
50	STEEL CONE WASHER	1

NOTES
1. DIMENSIONS OF CONCRETE PROVIDED FOR TYPICAL WALLS.
2. SEE PLAN FOR DETAILS.

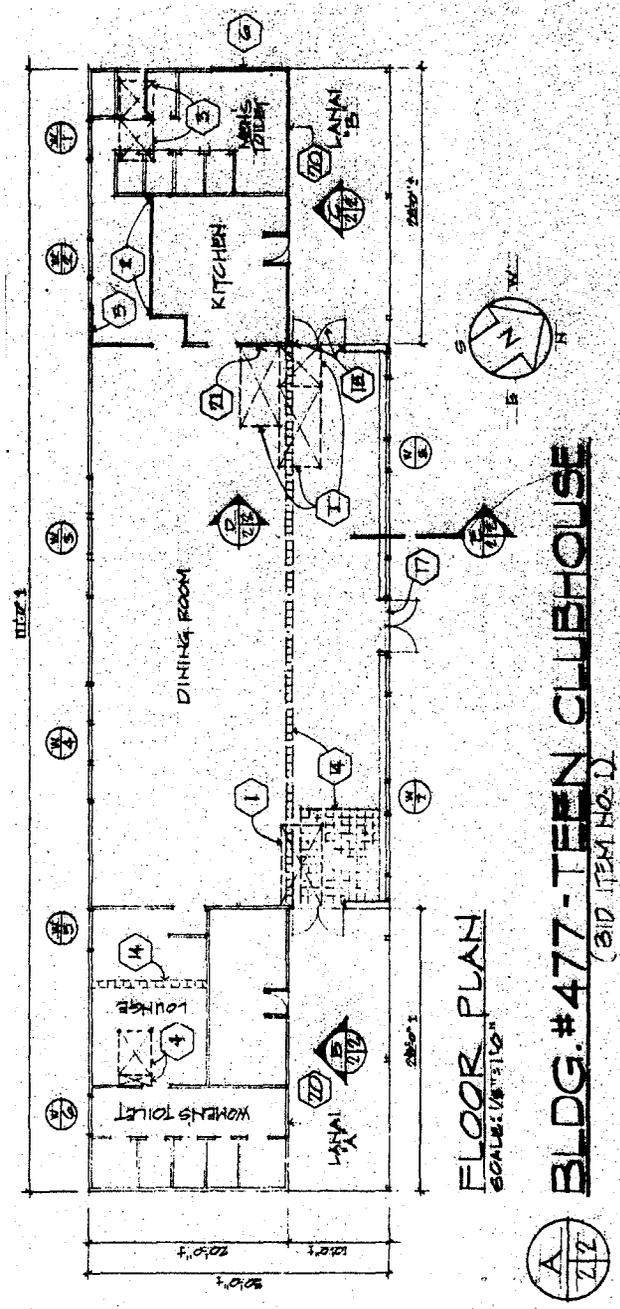
APPROVED BY BUREAU OF YARDS AND DOCKS
DATE: JULY 28, 1944
BY: [Signature]

FUNCTIONAL COMPONENT: ADVANCED BASES, FOUNDATION & FLOOR SLAB

PROJECT NO.: HI-311-F
DRAWING NO.: 303585

**U.S. MARINE CORPS BASE HAWAII, KANEOHE BAY,
 GOLF COURSE EQUIPMENT AND REPAIR SHOP
 (U.S. Marine Corps Base Hawaii, Kaneohe Bay, Building No. 477)
 HABS No. HI-311-F (Page No. 20)**

Portion of plan showing alterations to Quonset hut Building 477. Dated December 6, 1971. From Naval Facilities Engineering Command 1971, drwg 7000869.



FLOOR PLAN
 SCALE: 1/8" = 1'-0"

BLDG. #477 - TEEN CLUBHOUSE
 (S.D. ITEM NO. D)

