

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

**NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM**

FOR FEDERAL PROPERTIES

FOR NPS USE ONLY

RECEIVED

FEB 7 1977

DATE ENTERED

OCT 31 1980

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

1 NAME

HISTORIC

U. S. Coast Guard Diamond Head Light ^{house} (LIGHTHOUSE ONLY)

AND/OR COMMON

Diamond Head Lighthouse

2 LOCATION

STREET & NUMBER

3399 Diamond Head Road

NOT FOR PUBLICATION

CITY/TOWN

Honolulu

CONGRESSIONAL DISTRICT

STATE

Hawaii

VICINITY OF

CODE

15

COUNTY

Honolulu

CODE

003

2 CLASSIFICATION

CATEGORY	OWNERSHIP	STATUS	PRESENT USE	
<input type="checkbox"/> DISTRICT	<input checked="" type="checkbox"/> PUBLIC	<input checked="" type="checkbox"/> OCCUPIED	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> MUSEUM
<input type="checkbox"/> BUILDING(S)	<input type="checkbox"/> PRIVATE	<input type="checkbox"/> UNOCCUPIED	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> PARK
<input checked="" type="checkbox"/> STRUCTURE	<input type="checkbox"/> BOTH	<input type="checkbox"/> WORK IN PROGRESS	<input type="checkbox"/> EDUCATIONAL	<input type="checkbox"/> PRIVATE RESIDENCE
<input type="checkbox"/> SITE	PUBLIC ACQUISITION	ACCESSIBLE	<input type="checkbox"/> ENTERTAINMENT	<input type="checkbox"/> RELIGIOUS
<input type="checkbox"/> OBJECT	<input type="checkbox"/> IN PROCESS	<input checked="" type="checkbox"/> YES: RESTRICTED	<input checked="" type="checkbox"/> GOVERNMENT	<input type="checkbox"/> SCIENTIFIC
	<input type="checkbox"/> BEING CONSIDERED	<input type="checkbox"/> YES: UNRESTRICTED	<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> TRANSPORTATION
		<input type="checkbox"/> NO	<input checked="" type="checkbox"/> MILITARY	<input type="checkbox"/> OTHER

4 AGENCY

REGIONAL HEADQUARTERS: (if applicable)

U. S. Coast Guard

STREET & NUMBER

677 Ala Moana

CITY/TOWN

Honolulu

VICINITY OF

STATE

Hawaii

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE,
REGISTRY OF DEEDS, ETC.

Bureau of Conveyances

STREET & NUMBER

403 Queen Street

CITY/TOWN

Honolulu

STATE

Hawaii

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

None

DATE

FEDERAL STATE COUNTY LOCAL

DEPOSITORY FOR
SURVEY RECORDS

CITY/TOWN

STATE

7 DESCRIPTION

CONDITION		CHECK ONE	CHECK ONE
<input checked="" type="checkbox"/> EXCELLENT	<input type="checkbox"/> DETERIORATED	<input checked="" type="checkbox"/> UNALTERED	<input checked="" type="checkbox"/> ORIGINAL SITE
<input type="checkbox"/> GOOD	<input type="checkbox"/> RUINS	<input type="checkbox"/> ALTERED	<input type="checkbox"/> MOVED DATE _____
<input type="checkbox"/> FAIR	<input type="checkbox"/> UNEXPOSED		

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The present square concrete tower has a convex copper roof and circular section steel lantern house with trapezoidal shaped storm panes which was built in 1917. Dimensions are 15.6 feet at base, 11.0 feet at top, 62.5 feet height above ground and 147.0 feet focal plane above sea level.

Lighting equipment consists of a 3rd order fixed Fresnel lens with a light source of a 1000W lamp. Previous lighting equipment included an oil vapor light.

Special signaling equipment consists of an AN/FRT-7 Radio Transmitter.

Special features include a battery operated emergency light with a 250mm lens. An automatic telephone dialer reports light failures.

Light was automated on 6 April 1950, *REPLACING ORIGINAL EQUIPMENT.*

The lower portion of the tower is squared up until the circular walk with a steel handrail supported by steel brackets is reached. There is a rectilinear door with a triangular pediment above. The signal light at the upper portion of the building can be reached by an internal spiral staircase to the watchroom floor, then by a wrought iron ladder to the lantern floor.

A U. S. Coast and Geodetic Survey bronze tablet is set in the southwest corner of the foundation of the Lighthouse. This tablet is stamped "L-7, 1927". The elevation is 95.089 feet above mean sea level. A reference point, which is a similar bronze tablet, is located on military reservation corner post No. 34, 10 feet east of the northeast corner of the garage, and 50 feet northeast of the Diamond Head Light. The elevation of this tablet is 98.463 feet above mean sea level.

Diamond Head Light exhibits an occulting white light with a red sector to the west. The white and red sectors are illuminated concurrently for 2 seconds and then for 5 seconds, separated by a 1.5 second period of darkness. The white sector extends from 093° true to 279° true and the red sector extends from 279° true to 290° true. The light is obscured from 290° true to 093° true, from west to east.

Two dwellings constructed in 1917 are located on the Diamond Head Lighthouse's 2.2 acre parcel. The large dwelling was occupied by the Superintendent of the 19th Lighthouse prior to the merger of the Lighthouse Service with the Coast Guard in 1939. During the period 1939 to 1945, both dwellings served as the 14th Coast Guard Radio Station. In 1945 the Radio Station was moved to Wahiawa and the large dwelling was renovated and has been the residence of the District Commander since that time. The Commander's residence is a one-story bungalow with a bracketed, front-facing gabled roof with overhanging eaves and exposed rafters. The house has an L-shaped floor plan with a long gabled wing extending through an outset, enclosed stone porch with a gabled roof supported by tapered columns. Steps lead to the porch from its right side. The building has shiplap siding and sits on a

8 SIGNIFICANCE

PERIOD	AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW			
<input type="checkbox"/> PREHISTORIC	<input type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE
<input type="checkbox"/> 1500-1599	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> ECONOMICS	<input type="checkbox"/> LITERATURE	<input type="checkbox"/> SCULPTURE
<input type="checkbox"/> 1600-1699	<input type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input checked="" type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input checked="" type="checkbox"/> TRANSPORTATION
<input checked="" type="checkbox"/> 1900-	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input checked="" type="checkbox"/> OTHER (SPECIFY) Navigation
		<input type="checkbox"/> INVENTION		

SPECIFIC DATES

1917

BUILDER/ARCHITECT

STATEMENT OF SIGNIFICANCE

Diamond Head Lighthouse was built in 1899 on the southwest side of the extinct Diamond Head volcano. The present structure was built in 1917 when the old masonry tower began to crumble. The structure itself is of the classic lighthouse design; a thick white tower with a barn-red pointed roof. The original ironwork of the watchroom and lantern are still in use. The tower is constructed of reinforced concrete and stands 55-foot high. The original lighting equipment consisted of a 3rd order Fresnel lens (the only one in the Hawaiian Islands) and a special multiple wick kerosene oil lamp which had been imported from France. These, in 1899, were the best and standard throughout the world for lights of this size and importance.

The fixed or steady light has been replaced with the present day occulting one. Today, Diamond Head Lighthouse stands as a modern automated aid operating with maximum efficiency and safety. The apparatus is equipped with an automatic standby electric generator as well as a self-operated electric bulb lamp changer and two self-winding electric control clocks. Only one clock controls the equipment at a given time, the other is a standby which cuts in automatically should the other fail. These clocks automatically turn on the equipment at sunset and turn it off at sunrise. A photoelectric cell alarm control system was formerly installed which caused an alarm bell to ring in the base of the tower and also in the nearby dwelling when the light failed but this system was removed during the war years.

Built 147-feet above sea level, Diamond Head's light can be seen as far away as 17 miles and has an intensity of 60,000 candlepower. This light also serves as a radio direction finder calibration station and can be used to calibrate a vessels radio direction finder upon request. This light assists a navigator to determine his position or safe course, or to warn him of dangers or obstructions to navigation. The primary purpose of the light is to assist the mariner arriving from distant points to fix his position before approaching shoal water and to serve as check points for coastal navigation.

This light is utilized as the termination point for numerous monohulled and multihulled sail boat Trans-Pacific races since 1906.

Diamond Head Light may be considered as one of the well-known beacon lights in the Pacific, standing as it does a sentinel to Honolulu Harbor, and flashing a welcome to mariners from East or West.

9 MAJOR BIBLIOGRAPHICAL REFERENCES

Lighthouse Service Records
 Coast Guard District 14, Aids to Navigation Historical Files
 Coast Guard District 14, Public Affairs Historical Files

ACREAGE NOT VERIFIED

10 GEOGRAPHICAL DATA

ACREAGE OF NOMINATED PROPERTY 0.01

UTM NOT VERIFIED

UTM REFERENCES

49	623 240	23 51280	N	49	623 240	23 51280	N
ZONE	EASTING	NORTHING	N	ZONE	EASTING	NORTHING	N

VERBAL BOUNDARY DESCRIPTION

See C.G. Drawing No. 14-011-035

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE
STATE	CODE	COUNTY	CODE

11 FORM PREPARED BY

NAME / TITLE

J. D. LINDGREN, LTJG, USCG and Mrs. Thelma L. Yuen, Supply Clerk

ORGANIZATION

14th Coast Guard District

DATE

12 January 1977

STREET & NUMBER

677 Ala Moana

TELEPHONE

808 546-5524

CITY OR TOWN

Honolulu

STATE

Hawaii

12 CERTIFICATION OF NOMINATION

SEE ATTACHED FORM

STATE HISTORIC PRESERVATION OFFICER RECOMMENDATION

YES _____ NO _____ NONE _____

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

In compliance with Executive Order 11593, I hereby nominate this property to the National Register, certifying that the State Historic Preservation Officer has been allowed 90 days in which to present the nomination to the State Review Board and to evaluate its significance. The evaluated level of significance is National National _____ State _____ Local _____

FEDERAL REPRESENTATIVE SIGNATURE

TITLE *Environmental Affairs Specialist*

DATE *1/24/77*

FOR NPS USE ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

DIRECTOR, OFFICE OF TECHNOLOGY AND HISTORIC PRESERVATION

DATE *10-31-80*

ATTEST

KEEPER ON THE NATIONAL REGISTER

KEEPER OF THE NATIONAL REGISTER

DATE *1-10-80*

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CONTINUATION SHEET

ITEM NUMBER 7 PAGE one

raised rock column foundation with lattice work between the columns. All windows are double hung sash. An enclosed lanai (patio) with a flat roof was added to the right side of the residence in 1959. The Commander's residence is located on a large landscaped lot to the immediate west of the Lighthouse. The lot is enclosed on the east and south sides by a wall constructed of coral, blue stone and moss rock built in 1917. Beneath the wall to the public right of way are plantings placed to prevent soil erosion.

The small dwelling is a guest cottage and is located immediately in front of the Lighthouse and originally served as the Lighthouse keeper's residence. It is a modest board and batten structure with a gabled roof. A small addition was made to this building in 1946 to give it an L-shaped plan.

The original wood framed garage constructed in 1917 was demolished and rebuilt in 1961. The 2-car garage and tool shed/toilet building is constructed of concrete blocks with hip roof of asphalt thick butt shingles. The building located along Diamond Head Road faces north and is behind the Lighthouse.

On the east side of the Lighthouse is the Caretaker's office. The double wall construction, with redwood interior and shingle hip roof was erected in 1971 by the caretaker.

These houses and related structures have been altered to such an extent that they should be considered as intrusions.

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CONTINUATION SHEET

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PAGE one

The light was established at this particular site to best serve the navigation needs of this area.

The related land does not contribute to the maintenance of the tower because of steep cliffs.