#### NOAA FORM 76-35 (6-80)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

# DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT	BE FIELD EDITED
	Edition No.
TP-01295	1
Job No.	
CM-8317	
Map Classification	
CLASS III FINAL	
Type of Survey	
SHORELINE	· · · · · · · · · · · · · · · · · · ·
LOCALITY	,
State	·
HAWAII	
General Locality	
BARBERS POINT TO MAKAPUU P	OINT
Locality	
SAND ISLAND	
<u></u>	
1986 <b>TO</b> 19	
REGISTERED IN AF	RCHIVES
DATE	

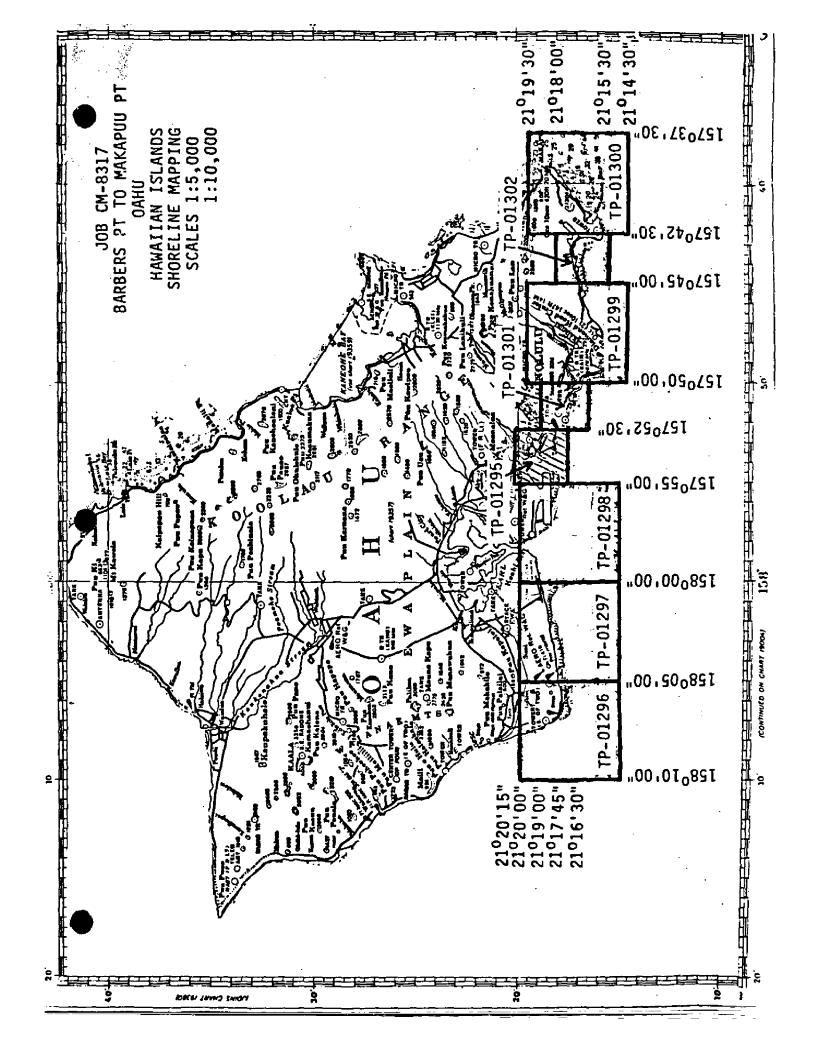
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NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	survey TP-01295
		☑ ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE RE	PORT - DATA RECORD	RESURVEY	MAP CLASS III Final
		REVISED	јов <b>рн</b> . <u>СМ-8317</u>
PHOTOGRAMMETRIC OFFICE		<del>                                     </del>	DING MAP EDITION
Coastal Mapping Unit	Ē	TYPE OF SURVEY	JOB PH-
Atlantic Marine Cent		ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE		RESURVEY	SURVEY DATES:
		REVISED	19TQ 19
C, Dale North, Jr.			
I. INSTRUCTIONS DATED  1.	OFFICE		. FIELD
Aerotriangulation Compilation	April 3, 1987 October 2, 1987	Control	May 17, 1987
II. DATUMS		OTHER (Specify)	
I. HORIZONTAL:	1927 NORTH AMERICAN	Old Hawaiian Dat	um
	M	OTHER (Specify)	un.
	X MEAN HIGH-WATER		
2. VERTICAL:	MEAN LOWER LOW-WATER	,	
	MEAN SEA LEVEL		
3. MAP PROJECTION			GR(D(S)
		STATE	3 and
Transverse Mercator 5. SCALE	rojection	Hawaii STATE	ZONE
1:5,000			
III. HISTORY OF OFFICE OPER	ATIONS	<u> </u>	<del></del>
OPE	ERATIONS	NAME	DATE
1. AEROTRIANGULATION	ву	B. Thornton	Apr. 1987
METHOD: Analytic	LANDMARKS AND AIDS BY	B. Thornton	Apr. 1987_
2. CONTROL AND BRIDGE POIL		B. Thornton	Apr. 1987
METHOD: Kongsburg I	<del></del>	D. Norman	Apr. 1987
3. STEREOSCOPIC INSTRUMENT COMPILATION	T PLANIMETRY BY CHECKED BY	R. Kravitz	Oct. 1987 Oct. 1987
INSTRUMENT: Wild B-		F. Mauldin N.A.	000. 1507
SCALE: 1:5,000		N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. Kravitz	Nov. 1987
	CHECKED BY	F. Mauldin	Dec. 1987
метнор: Smooth Dra	afted contours by	N.A.	
	CHECKED BY	N.A	
scale: 1:5,000	HYDRO SUPPORT DATA BY CHECKED BY	R. Kravitz	Nov. 1987 Dec. 1987
5. OFFICE INSPECTION PRIOR		F. Mauldin F. Mauldin	Dec. 1987
	BY	N.A.	<u> </u>
6. APPLICATION OF FIELD ED	T DATA CHECKED BY	N.A.	
7. COMPILATION SECTION REV	NEW Class III BY	F. Mauldin	Dec. 1987
8. FINAL REVIEW	01c TTT	L. O. Neterer, Jr	Feb. 1989
	Class III BY		·
9. DATA FORWARDED TO PHOT	TOGRAMMETRIC BRANCH BY	L. O. Neterer, Jr	
9. DATA FORWARDED TO PHOT  10. DATA EXAMINED IN PHOTOGORIAL TO THE PROPERTY OF	TOGRAMMETRIC BRANCH BY		·

NOAA FORM 76-36 A SUPERSEDES FORM C& GS 181 SERIES

NOAA FORM 76-36B (3-72)		mp 013	NATIONAL OCE	ANIC AND ATMOSE	ARTMENT OF COMMERCE
	CO	TP-012 PILATION S		N/	ATIONAL OCEAN SURVEY
1. COMPILATION PHOTOGRAPHY					
CAMERA(S)		TYPES OF	F PHOTOGRAPHY		
Wild RC 10 (B) $(B = 152)$	.21mm)		LEGEND .	TIM	E REFERENCE
TIDE STAGE REFERENCE		(C) COLOR	,	zone 7tl	n
PREDICTED TIDES		(P) PANCH		Hawaii-Al	leútian 🌣 standard
X REFERENCE STATION RECORDS		(I) INFRAF		MERIDIAN	DAYLIGHT
	<del></del>			150 ° V	
NUMBER AND TYPE	DATE	TIME	SCALE	ŞI	AGE OF TIDE
86 B(C) Cl13-Cl16	03-09-86	03:59	1:15,000	1.3 ft.	above MLLW
86 B(C) C132-C136	03-09-86	04:18	1:15,000		above MLLW
00 2 (0) 040- 020-	7.	V	1.1.		ароле гипп.
			ĺ		
	1	i			
-			1	Mean Tide	Range = 1.5 ft.
REMARKS				<del></del>	
Stage of tide for		phs was ba	sed on refer	ence station	records for
the staff at Honolulu,					
2. SOURCE OF MEAN HIGH-WATER	LINE:				
The mean high-wate	r line was co	ompiled fr	om office in	terpretation	of the above
listed compilation/bri	dging photogn	raphs usin	g stereo ins	trument meth	nods.
		_			
3. SOURCE OF MEANOCON MANAGERS	OR MEAN LOWER LE	DW-WATER LINE	E:		<u> </u>
There was no mean	lower low-wat	er line c	ompiled on t	his map.	
·			_	-	
4. CONTEMPORARY HYDROGRAPH	IIC SURVEY\$ (List o	only those survey	ys that are sources f	or photogrammetric	survey information.)
SURVEY NUMBER DATE(S)	SURVEY COI	PY USED SU	RVEY NUMBER	DATE(S)	SURVEY COPY USED
		ł		- ,.,	
5. FINAL JUNCTIONS					
	AST	so	UTH	WEST	TP-01298
No Survey	TP-0130]	. 1	No Surve	,	1:10,000
REMARKS	11 01301		110 DUITE	<del>z</del> l	

	<u></u>					·	
	NOAA FORM 76-36	5D	m	P-01295 NATIONAL	Ų. L OCEANIC AND	S. DEPARTMENT : ATMOSPHERIC AD	OF COMMERCE MINISTRATION
			RECORD (	OF SURVEY USE			
**	I. MANUSCRIPT C	OPIES					
	The state of the s		IPILATION STAGES			ATE MANUSCRIPT	FORWARDED
DATA	COMPILED	DATE	REMARKS	MARIN	NE CHARTS HY	DRO SUPPORT	
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## SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

#### TP-01295

This 1:5,000 scale map is one of eight maps in Project CM-8317, Barbers Point to Makapuu Point, Oahu, Hawaii. The project extends from longitude 157° 37' 30" to longitude 158° 10' 00" along the southern coastline of the island of Oahu.

Photographic coverage was provided in March 1986 with color film at 1:15,000 scale using a Wild RC 8 "B" camera (focal length 152.21 millimeters).

Field work prior to compilation was accomplished during November 1986. It consisted of photoidentification of the horizontal control stations to satisfy aerotriangulation requirements.

Analytic aerotriangulation was performed at the Washington Science Center in April 1987.

Compilation was performed at the Atlantic Marine Center, from office interpretation of the 1:30,000 scale color photography in December 1987.

Final review was accomplished at the Atlantic Marine Center in February 1989. A Chart Maintenance Print for the Marine Chart Branch and Notes to the Hydrographer Print for the Hydrographic Branch were prepared and forwarded.

This map is to be registered as a Class III, Final Map.

The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.

AEROTRIANGULATION REPORT

CM-8317

BARBERS PT. TO MAKAPUU PT.

OAHU, HAWAII

#### **APRIL 1987**

## 21. AREA COVERED

This shoreline mapping project covers the southern part of the island of Oahu, Hawaii, from Barbers Pt. to Makapuu Pt. There are five sheets at 1:10,000 scale and three sheets at 1,5,000 scale that cover the job area. The sheets are numbered TP-01295 through TP-01302.

## 22. METHOD

Two strips of 1:30,000-scale photographs: 86-B-C052 to C063, 86-B-C092 to C100, and two strips of 1:15,000-scale photographs: 86-B-C113 to C122, 86-B-C131 to C141 were bridged by analytical aerotriangulation methods and adjusted to ground using photo-identified field control. Office identified intersection stations were used as checks.

Compilation points were placed on four additional strips of photographs not used for bridging:

86-A-C002	to (	2004	1:30,000	scale
86-B-C103	to (	2105	1:30,000	scale
86-B-C072	to (	C077	1:15,000	scale
86-B-C084	to (	2086	1:15,000	scale

Tie points were used to ensure adequate junctions of all strips and were used as supplemental control.

Ratio values were determined for the bridging, and where needed, compilation photographs.

A magnetic tape was generated for plotting base manuscripts on the Kongsburg plotter. Bridged points were based on the Hawaiian Islands, Zone 3 Coordinate System and referenced to the Transverse Mercator projection.

Two each of the eight base manuscripts have been ruled as per Aerotriangulation Instructions.

## 23. ADEQUACY OF CONTROL

The control for this project is adequate for the job and meets the National Ocean Service's requirements. A listing of closures to control is attached.

## 24. SUPPLEMENTAL DATA

USGS topographic quadrangles were used to obtain vertical control for bridging.

## 25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by:

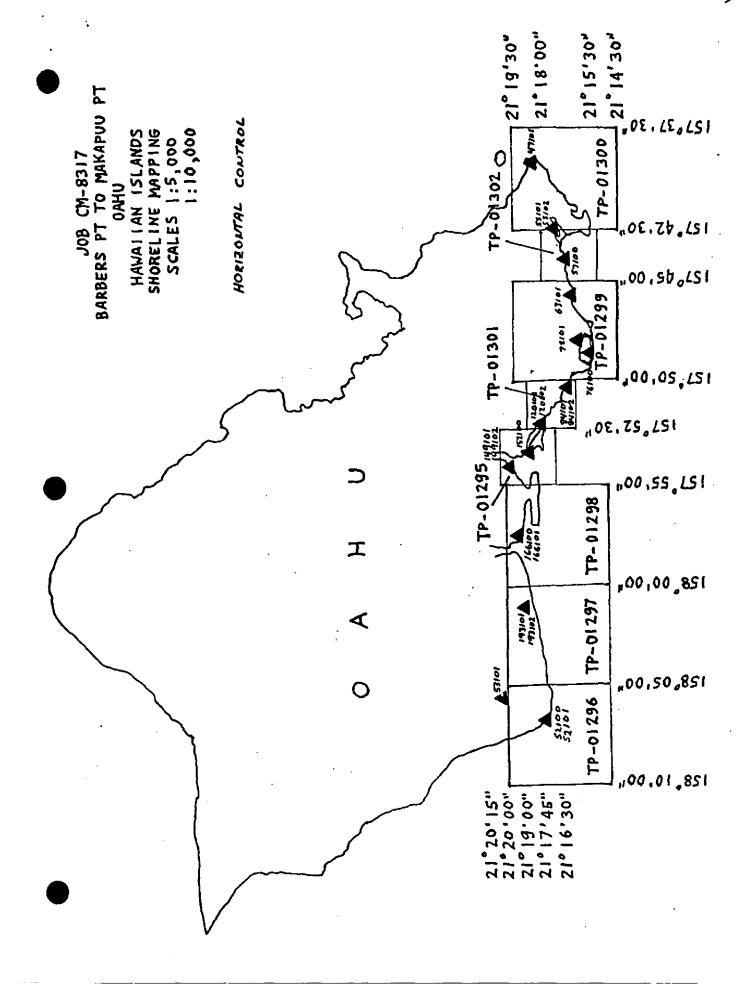
Brian Thornton

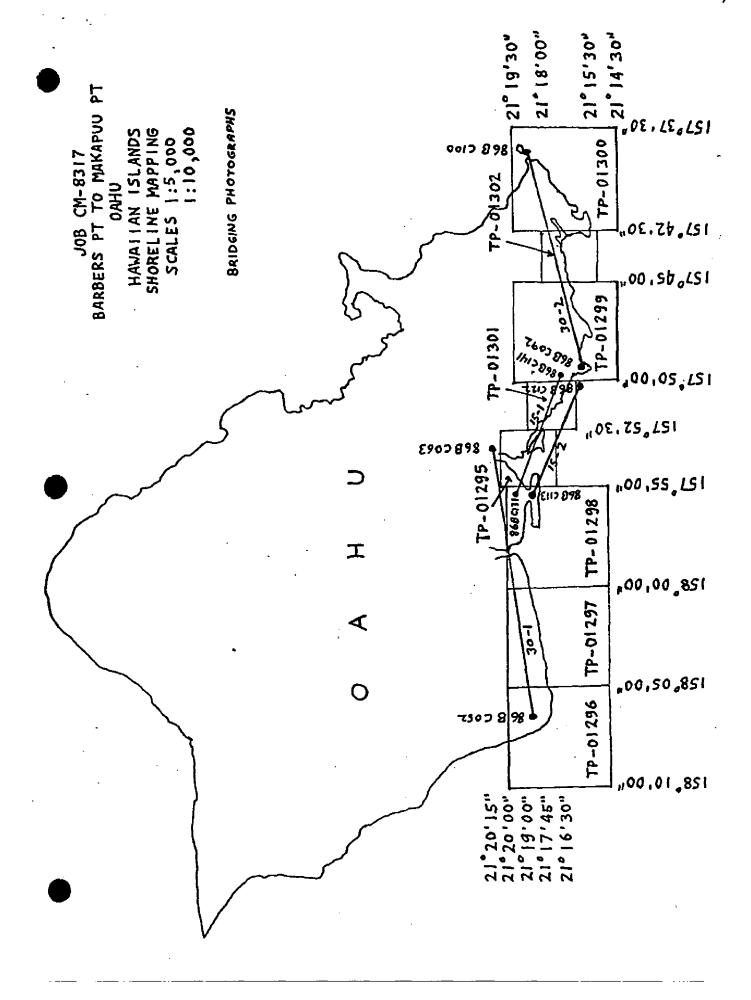
Approved and Forwarded:

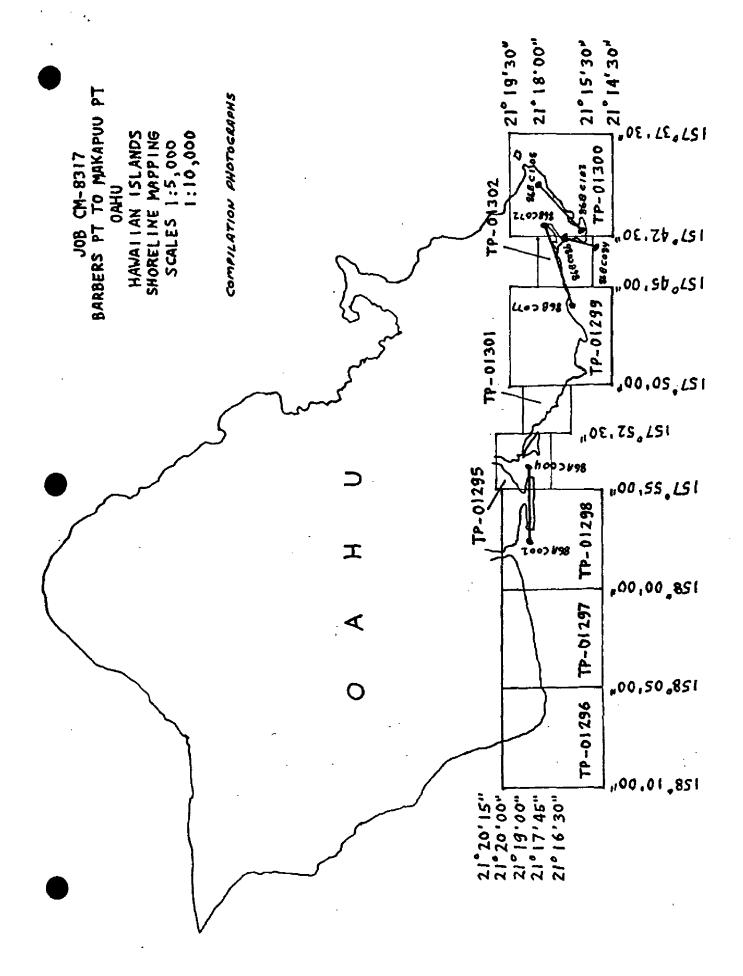
Don O. Norma

Don O. Norman

Chief, Aerotriangulation Unit







## FIT TO CONTROL

△ • Control point held in adjustment

☐ = Tie point held in adjustment

## STRIP #30-1

	CENTRAL WAVE	DOT::::::::::::::::::::::::::::::::::::	VALUES I	N
	STATION NAME	POINT NO.	FEET_X	- <sub>Y</sub>
	·		X	Y
٨	Barbers Pt. Lighthouse New, 1933 Barbers Pt. Lighthouse Sub	52100	-0.9	-1.6
7.7	Pt. 1A	52101	-1.0	0.6
Δ	State Survey 9-3, 1969 Sub	32101	- 1 • 0	0.0
	Pt. 1B	53101	1.1	-1.1
	Barbers Pt. NAS Base Control			
	Twr. Beacon	226110	-2.2	0.2
	30188, 1973 Sub Pt. 2A	193101	-4.6	~5,2
Δ	30188, 1973 Sub Pt. 2B	193102	-1.1	-1.7
	Ft. Kamehameha Flagstaff, 1925	166100	2.0	1.0
	Ft. Kamehameha Flagstaff Sub			
	Pt. 3A	166101	1.3	3.4
	Pearl Harbor Water Tank B,		-	
	1925	188110	-1.4	-0.2
	Pearl Harbor Escape Training	101111		
	Tower	181110	-0.7	4.7
	Honolulu Inter. Airport	150110		
	Control Twr. Beacon 164	158110	-1.0	0
	Honolulu Moanalua Water Tank, 1957	102110		2 2
	Aliamanu Honolulu Board of	183110	-1.7	2.2
	Water Supply Tank, '69	184110	-0.7	-0.7
٨	State Survey 1-13, 1969 Sub	104110	-0.7	-0.7
	Pt. 4A	149101	1.7	0.4
Δ	State Survey 1-13, 1969 Sub		-,,	
_	Pt. 4B	149102	-2.0	-1.6
		•	_ • _	
	STRIP #30-2			
				•
Δ	State Survey 3-5, 1969 Sub			
	Pt. 7A	75101	2.8	-2.0
	Diamond Head Lighthouse, 1925	76100	3.8	-8.5
	Honolulu Sac. Heart Acad. Cross	89110	-3.0	1.7
_	Tie from Strip #15-1	140801	-3.2	2.5
	Tie from Strip #15-1	140802	-2.0	2.5
	Tie from Strip #15-1	140803	-1.8	2.6

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## RATIO VALUES CM-8317

1:30,000-scale color bridging photographs:

86-B-C052 to C063 Ratio 3.118 86-B-C092 to C100 Ratio 3.132

1:15,000-scale color bridging photographs:

86-B-C131 to C141 Ratio 3.112 86-B-C113 to C122 Ratio 3.104

1:30,000-scale color compilation photographs:

86-A-C002 to C004 Ratio 3.100

1:15,000-scale color compilation photographs:

86-B-C072 to C077 Ratio 3.100 86-B-C084 to C086 Ratio 3.100

20 20 20 20					Prototory to the state of the
(6–75)		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD		NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	VITY Coastal Mapping
TP-01295	CM-8317	117	Old Hawaiian Datum	AMC,	Norfolk, VA
		AEROTRI-	ı⊢		
STATION NAME	INFORMATION (Index)	ANGULATION POINT NUMBER	STATE HAWALL ZONE 3	φ LATITUDE λ LONGITUDE	REMARKS
	QUAD 211573	\	-χ	\$ 21° 19' 04.493"	
STATE SURVEY 1-6, 1969	STA 1109	. 757	=ĥ	26	
	QUAD 211573	7 00.07.	χ=	φ 21° 20' 02.050" ~	
STATE SURVEY 1-13, 1969 V	STA 1140	<b>r</b> ⊣	=ħ	λ 157° 54' 15.423" ~	
	QUAD 211573	ا م	=χ	\$ 21° 20' 11.018"	
STATE SURVEY 1-8, 1969 "	STA _ 1111	<b>1</b> .40	=h	λ 157° 53' 51.026" —	
			<b>=</b> χ	φ.	
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			zħ.	γ	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY R. Kravitz		DATE 10/7/87	LISTING CHECKED BY F. Mauldin		DATE 11/20/87
		DATE	HAND PLOTTING CHECKED BY		DATE DATE
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	CH IS OBSOLETE.	

#### COMPILATION REPORT

#### TP-01295

#### 31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:15,000 scale bridging/compilation color photographs.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate. There were no mean lower low water infrared photographs for this project.

#### 32. CONTROL:

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated April 1987.

#### 33. SUPPLEMENTAL DATA:

None.

#### 34. CONTOURS AND DRAINAGE:

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

#### 35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was compiled from office interpretation of the bridging/compilation photographs. The shoreline compiled was the visible line of contact between land features and the water surface at the time of photography.

There was no mean lower low water line compiled on this map.

#### 36. OFFSHORE DETAILS:

Offshore detail was compiled by instrument methods using the 1:15,000 scale bridging/compilation color photographs as described in item #31.

#### TP-01295

## 37. LANDMARKS AND AIDS:

There are five charted landmarks and fourteen charted aids to navigation within the limits of this map. Among these, two landmarks and thirteen aids were located/verified photogrammetrically.

#### 38. CONTROL FOR FUTURE SURVEYS:

None.

#### 39. JUNCTIONS:

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

## 40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

#### 46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following U.S. Geological Survey Quadrangles:

Pearl Harbor, Hawaii; dated 1983; scale 1:24,000 Honolulu, Hawaii; dated 1983; scale 1:24,000

## 47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Service charts:

19013; 13th edition; dated February 12, 1983; scale 1:675,000 19357; 17th edition; dated October 15, 1983; scale 1:80,000 19364; 20th edition; dated January 12, 1985; scale 1:20,000 19367; 33rd edition; dated April 12, 1986; scale 1:5,000

TP-01295

## ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

## ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Robert R. Kravitz

Cartographic Technician

November 13, 1987

Approved:

James L. Byrd, Jr.

Chief, Coastal Mapping Unit

## GEOGRAPHIC NAMES

#### FINAL NAME SHEET

## CM-8317 (Oahu, Hawaii)

## TP-01295

Honolulu

Honolulu International Airport

Iwilei

Kahakaaulana Island

Kalihi Channel

Kalihi Kai

Kalihi Stream

Kapalama

Kapalama Basin

Kapalama Drainage Canal

Keehi Lagoon

Mamala Bay

Moanalua Stream

Mokauea Island

Mokuoeo Island

Oahu

Sand Island

Approved:

Charles E. Harrington

Chief Geographer Nautical Charting

Division

#### REVIEW REPORT SHORELINE

#### TP-01295

#### 61. GENERAL STATEMENT

See Summary included with this Descriptive Report.

The Office Instructions were executed as indicated in paragraph 2.1 with reference to the Old Hawaiian horizontal datum. Reference to the horizontal North American Datum 1927 in paragraphs 4.5 and 4.6 of the Aerotriangulation Instructions and paragraphs 2.6 and 5.2.3 of the Office Instructions were inapplicable and were ignored.

#### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

## 63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the following USGS quadrangles:

HONOLULU, HAWAII, dated 1983, scale 1:24,000 and PEARL HARBOR, HAWAII, dated 1983, scale 1:24,000.

#### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There is no contemporary hydrographic survey within the limits of this map.

#### 65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following nautical charts:

19013, 13th edition, dated February 12, 1983, scale 1:675,000

19357, 17th edition, dated October 15, 1983, scale 1:80,000

19364, 20th edition, dated January 12, 1985, scale 1:20,000

19367, 33rd edition, dated April 12, 1986, scale

#### TP-01295

## ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:

Lowell O. Neterer, Jr.

Final Reviewer February 1989

Approved for Forwarding:

Billy H. Barne

Billy H. Barnes

Chief, Quality Assurance Group

Approved:

Chief, Photogrammetric Production Section

Chief, Photogrammetry Branch

#### CARTOGRAPHIC FEATURES OF POSSIBLE LANDMARK VALUE LISTING

Page 1 of 2

PROJECT: CM-8317

TP-01295; 1:10,000; Barbers Point MAP NUMBER (Scale); Locality:

to Makapuu Point, Oahu, Hawaii

GEODETIC DATUM: Old Hawaiian Datum

The following cartographic features have been identified as being of possible landmark value. These features have been identified and measured during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

FEATURE DESCRIPTION	NCD CC	GEOGRAPHIC POSITION - '-" NCD LATITUDE LONGITUDE Q.C.	DATE OF LOCATION
KALIHI CHANNEL	,		
ARTICULATED LIGHT 5	200	21 18 09.76 157 53 59.57 4	<u>03-09-86</u> -
LIGHT 6	200	21 18 08.61 157 53 54.91 4	03-09-86
LIGHT 8	200	21 18 27.59 157 53 52.41 4	03-09-86
LIGHT 7	200	21 18 28.66 157 53 57.27 4	03-09-86
LIGHT 12	200	21 18 40.72 157 53 47.10 4	03-09-86
LIGHT 13	200	21 18 43.99 157 53 51.23 4-	03-09-86
RANGE FRONT LIGHT	208	21 18 43.85 157 53 52.82 4	03-09-86
RANGE REAR LIGHT	209	21 19 03.88 157 53 50.18 4-	03-09-86
LIGHT 16 ~	200	21 18 48.61 157 53 41.71 4	03-09-86
LIGHT 17	200	21 18 58.91 157 53 46.99 4	03-09-86
LIGHT 20	200 -	21 18 57.42 157 53 33.11 4-	03-09-86
LIGHT 19	200 ~	21 19 02.67 157 53 36.24 4	03-09-86
RANGE FRONT LIGHT	NNEL 208	21 19 59.20 157 54 07.80 7	03-09-86

Listing approved by:

# CARTOGRAPHIC FEATURES OF POSSIBLE LANDMARK VALUE LISTING CM-8602

## TP-01295

Page 2 of 2

FEATURE DESCRIPTION	NCD CC			APHIC UDE			°_'_" UDE _		DATE OF LOCATION
TOWER	086	21	18	16.70	<u>) 15</u>	7 52	36.40	<u> 7                                   </u>	03-09-86
FLAGPOLE	086 ر	21	18	38.40	<u>) ັ 15</u>	7 <u>5</u> 2	36.20	7 7	03-09-86
RADIO TOWER	993	21	19	26.20	<u>) 15</u>	<u>7 52</u>	47.50	<u>) 7 7 </u>	03-09-86
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Listing approved by:	Dowell	<u> </u>	Le.	bu DEVIE	AUED.			<u>Opril</u>	4 1989

#### NAUTICAL CHART DIVISION

## **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		<u> </u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		<del></del>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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