

TP-01299

TP-01299

| | |
|---|------------------|
| 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 | |
| Map No. TP-01299 | Edition No. 1 |
| Job No. CM-8317 | |
| Map Classification CLASS III FINAL | |
| Type of Survey SHORELINE | |
| LOCALITY | |
| State HAWAII | |
| General Locality BARBERS POINT TO MAKAPUU POINT | |
| Locality DIAMOND HEAD | |
| 19 86 TO 19 | |
| REGISTERED IN ARCHIVES | |
| DATE | |

| | | | | | | | | | | | | | |
|---|-----------|--|--|----------------------------|-----------|--|------|-----------------------------------|--|-----------------------------------|--|----------------------------------|--|
| NOAA FORM 76-36A (3-72) | | U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. | | | | | | | | | | | |
| DESCRIPTIVE REPORT - DATA RECORD | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">TYPE OF SURVEY</td> </tr> <tr> <td><input checked="" type="checkbox"/> ORIGINAL</td> <td></td> </tr> <tr> <td><input type="checkbox"/> RESURVEY</td> <td></td> </tr> <tr> <td><input type="checkbox"/> REVISED</td> <td></td> </tr> </table> | | TYPE OF SURVEY | | <input checked="" type="checkbox"/> ORIGINAL | | <input type="checkbox"/> RESURVEY | | <input type="checkbox"/> REVISED | | | |
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| <input checked="" type="checkbox"/> ORIGINAL | | | | | | | | | | | | | |
| <input type="checkbox"/> RESURVEY | | | | | | | | | | | | | |
| <input type="checkbox"/> REVISED | | | | | | | | | | | | | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center Norfolk, VA OFFICER-IN-CHARGE C. Dale North, Jr. | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">SURVEY TP. <u>01299</u></td> </tr> <tr> <td colspan="2" style="text-align: center;">MAP EDITION NO. ()</td> </tr> <tr> <td colspan="2" style="text-align: center;">MAP CLASS III FINAL</td> </tr> <tr> <td colspan="2" style="text-align: center;">JOB CM 8317</td> </tr> </table> | | SURVEY TP. <u>01299</u> | | MAP EDITION NO. () | | MAP CLASS III FINAL | | JOB CM 8317 | | | |
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| <input type="checkbox"/> RESURVEY | | | | | | | | | | | | | |
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| TYPE OF SURVEY | | | | | | | | | | | | | |
| <input type="checkbox"/> ORIGINAL | | | | | | | | | | | | | |
| <input type="checkbox"/> RESURVEY | | | | | | | | | | | | | |
| <input type="checkbox"/> REVISED | | | | | | | | | | | | | |
| I. INSTRUCTIONS DATED | | | | | | | | | | | | | |
| 1. OFFICE | | 2. FIELD | | | | | | | | | | | |
| Aerotriangulation - April 3, 1987 Compilation - October 2, 1987 | | Control - May 17, 1987 | | | | | | | | | | | |
| II. DATUMS | | | | | | | | | | | | | |
| 1. HORIZONTAL: <input type="checkbox"/> 1927 NORTH-AMERICAN | | OTHER (Specify) Old Hawaiian Datum | | | | | | | | | | | |
| 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL | | OTHER (Specify) | | | | | | | | | | | |
| 3. MAP PROJECTION Traverse Mercator Projection | | 4. GRID(S) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">STATE Hawaii</td> <td style="width: 50%;">ZONE 3</td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table> | | STATE Hawaii | ZONE 3 | STATE | ZONE | | | | | | |
| STATE Hawaii | ZONE 3 | | | | | | | | | | | | |
| STATE | ZONE | | | | | | | | | | | | |
| 5. SCALE 1:10,000 | | STATE ZONE | | | | | | | | | | | |
| III. HISTORY OF OFFICE OPERATIONS | | | | | | | | | | | | | |
| OPERATIONS | | NAME | | | | | | | | | | | |
| DATE | | | | | | | | | | | | | |
| 1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY | | B. Thornton April 1987 | | | | | | | | | | | |
| 2. CONTROL AND BRIDGE POINTS METHOD: Kongsburg Plotter PLOTTED BY | | B. Thornton April 1987 | | | | | | | | | | | |
| 3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:10,000 | | D. Norman April 1987 | | | | | | | | | | | |
| 4. MANUSCRIPT DELINEATION METHOD: Smooth Drafted SCALE: 1:10,000 | | D. Miller Dec 1987 | | | | | | | | | | | |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT Final Review | | F. Mauldin Dec 1987 | | | | | | | | | | | |
| 6. APPLICATION OF FIELD EDIT DATA | | F. Mauldin Jan 1988 | | | | | | | | | | | |
| 7. COMPILATION SECTION REVIEW Class III | | F. Mauldin Jan 1988 | | | | | | | | | | | |
| 8. FINAL REVIEW Class III | | L.O. Neterer, Jr. Mar 1989 | | | | | | | | | | | |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH | | L.O. Neterer, Jr. | | | | | | | | | | | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH | | P. Dempsey June 1989 | | | | | | | | | | | |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION | | P. Dempsey | | | | | | | | | | | |

TP-01299

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| | | | | | |
|---|--------|---|----------|---|--|
| CAMERA(S) Wild RC 10(B) (B=152.21mm) | | TYPES OF PHOTOGRAPHY LEGEND | | TIME REFERENCE | |
| TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | (C) COLOR (P) PANCHROMATIC (I) INFRARED | | ZONE 7th Hawaii-Aleutian <input checked="" type="checkbox"/> STANDARD MERIDIAN 150° West <input type="checkbox"/> DAYLIGHT | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| 86B(C) C092-C095 | 3/9/87 | 3:33 | 1:30,000 | 1.3 ft above MLLW | |
| | | | | Mean Tide Range = 1.5 ft | |

REMARKS

Stage of tide for all photographs was based on reference station records for the staff at Honolulu, Hawaii.

2. SOURCE OF MEAN HIGH-WATER LINE:

The Mean High Water line was compiled from office interpretation of the above listed compilation/bridging photographs using stereo instrument methods.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

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

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
|---------------|---------|------------------|---------------|---------|------------------|
| | | | | | |

5. FINAL JUNCTIONS

| NORTH | EAST | SOUTH | WEST |
|-----------|--------------------|-----------|--------------------|
| No survey | TP-01302 (1:5,000) | No survey | TP-01301 (1:5,000) |

REMARKS

TP-01299

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|---|--------------------------|
| 1. CHIEF OF FIELD PARTY | J. Frederick | NOV 1986 |
| 2. HORIZONTAL CONTROL | RECOVERED BY M. McEwen ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY N. McEwen | NOV 1986 NOV 1986 |
| 3. VERTICAL CONTROL | RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY NA LOCATED (Field Methods) BY NA IDENTIFIED BY NA | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY NA | |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY NA | |
| II. SOURCE DATA | | |
| 1. HORIZONTAL CONTROL IDENTIFIED | 2. VERTICAL CONTROL IDENTIFIED | |

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

| COMPILATION STAGES | | | DATE MANUSCRIPT FORWARDED | |
|----------------------|----------|----------------------|---------------------------|---------------|
| DATA COMPILED | DATE | REMARKS | MARINE CHARTS | HYDRO SUPPORT |
| Compilation Complete | Jan 1988 | Class III Manuscript | | |
| Final Review | Mar 1989 | Final Class III Map | May 1989 | May 1989 |
| | | | | |
| | | | | |

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER pages | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|-----------------|---------------------------------|-------------------|---|
| 1 | | May 1989 | Charted landmarks and aids to navigation form |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

| | | | |
|-------------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER TP - _____ (2) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| THIRD EDITION | SURVEY NUMBER TP - _____ (3) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| FOURTH EDITION | SURVEY NUMBER TP - _____ (4) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |

BARBERS PT TO MAKAPUU PT

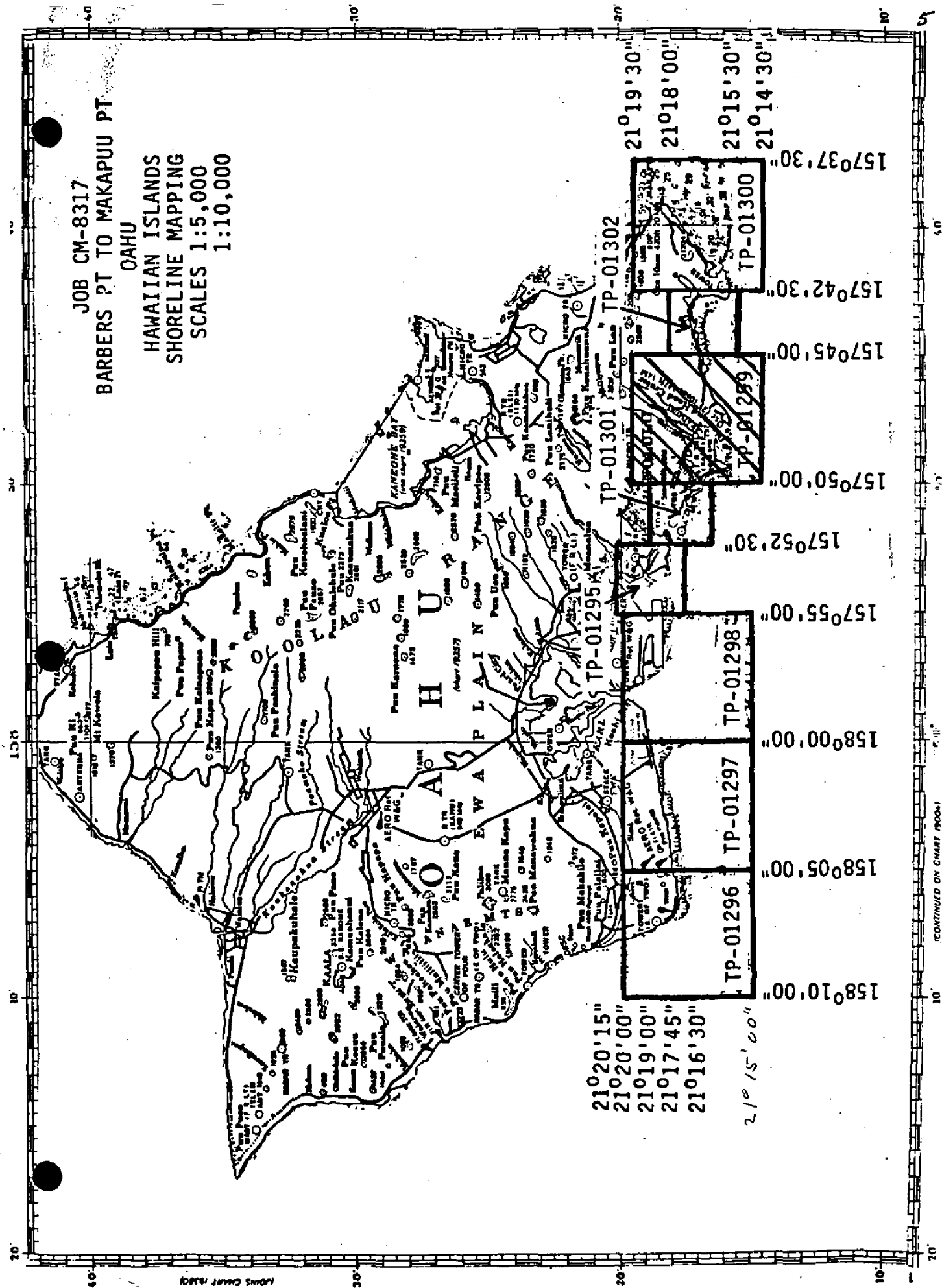
DAHU

HAWAIIAN ISLANDS

SHORELINE MAPPING

SCALES 1:5,000

1:10,000



CONTINUED ON CHART 100041

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT


TP-01299

This 1:10,000 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 1:30,000 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.



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 C004 | 1:30,000 scale |
| 86-B-C103 to C105 | 1:30,000 scale |
| 86-B-C072 to C077 | 1:15,000 scale |
| 86-B-C084 to C086 | 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.

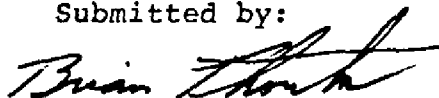
24. SUPPLEMENTAL DATA

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:

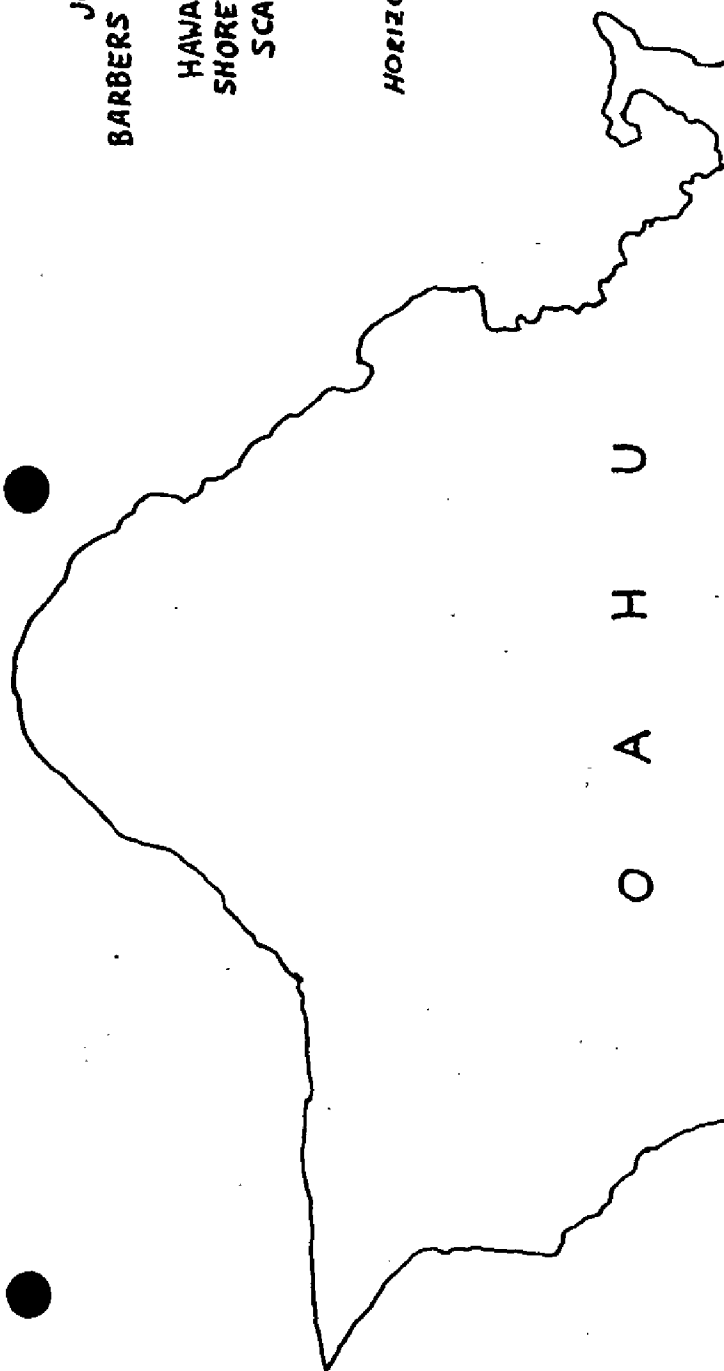


Don O. Norman
Chief, Aerotriangulation Unit

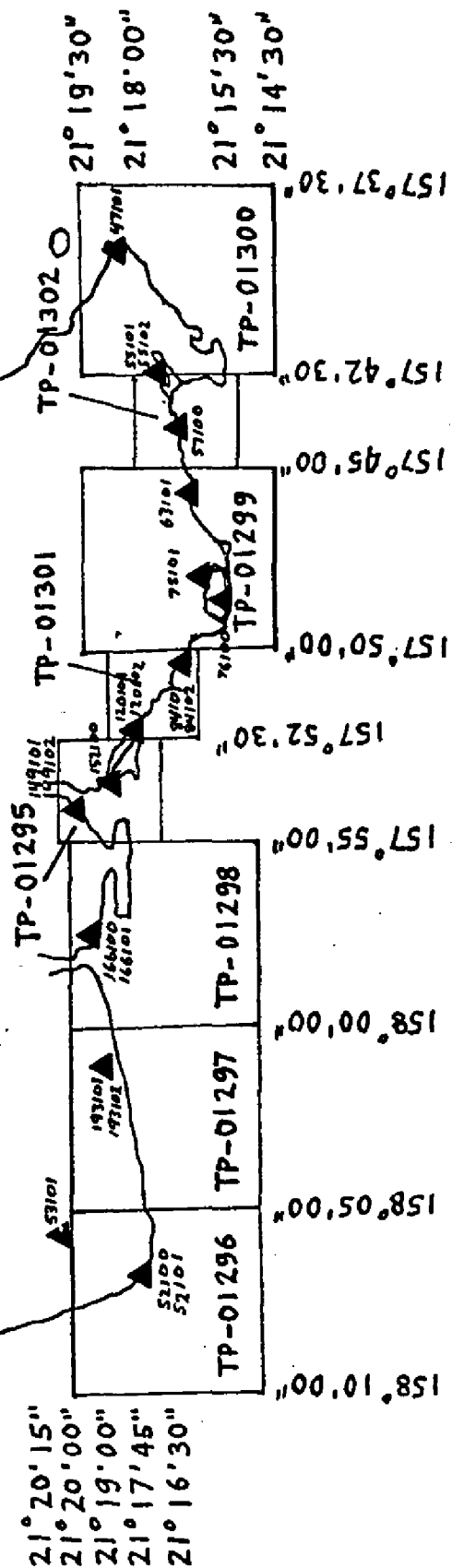
JOB CM-8317
BARBERS PT TO MAKAPUU PT

OAHU
HAWAIIAN ISLANDS
SHORELINE MAPPING
SCALES 1:5,000
1:10,000

HORIZONTAL CONTROL



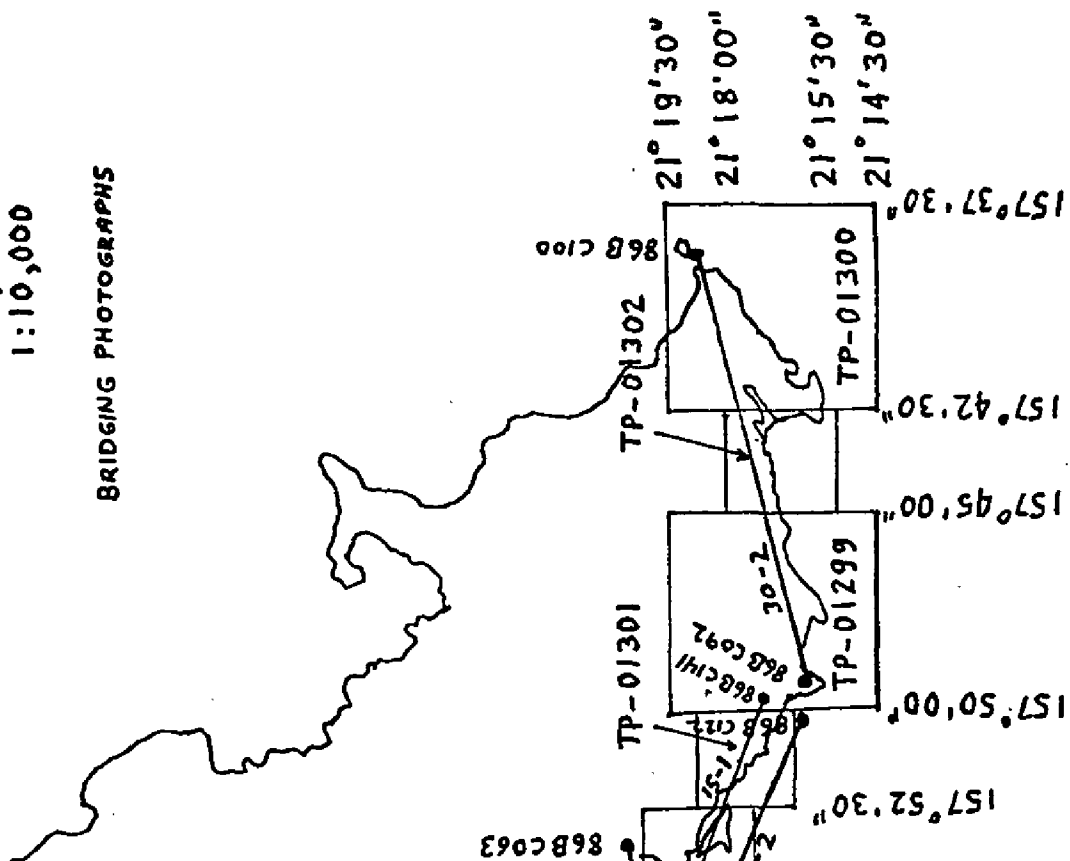
O A H U



JOB CM-8317
BARBERS PT TO MAKAPUU PT

OAHU
HAWAIIAN ISLANDS
SHORELINE MAPPING
SCALES 1:5,000
1:10,000

BRIDGING PHOTOGRAPHS

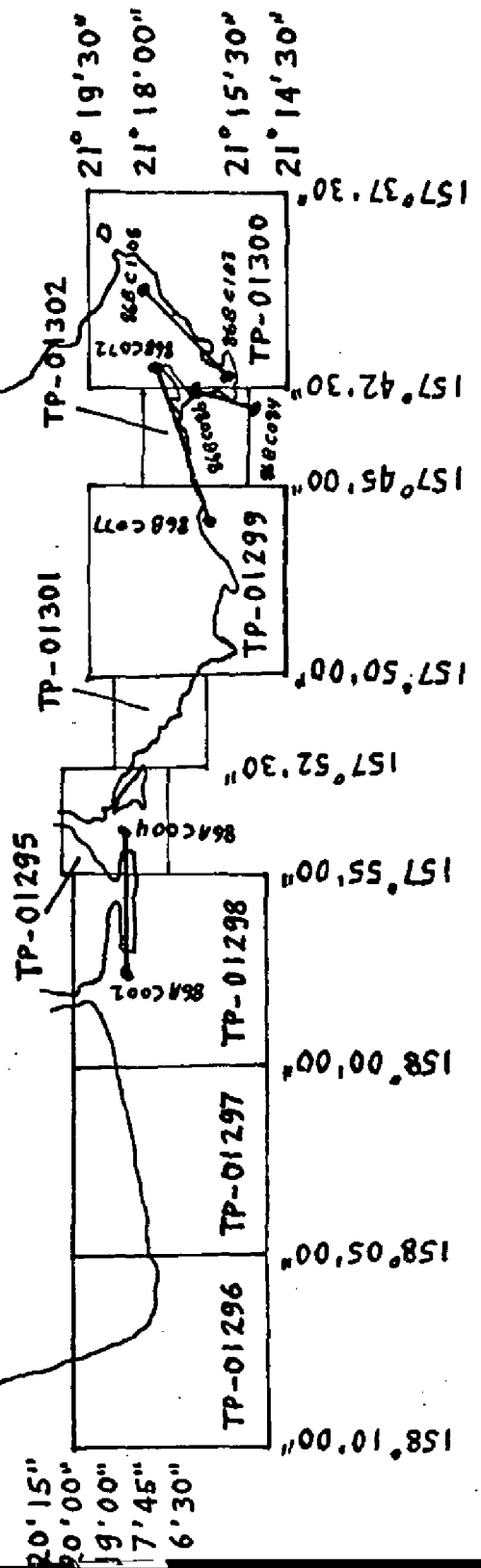


JOB CM-8317
 BARBERS PT TO MAKAPUU PT

OAHU
 HAWAIIAN ISLANDS
 SHORELINE MAPPING
 SCALES 1:5,000
 1:10,000

COMPILATION PHOTOGRAPHS

O A H U



FIT TO CONTROL

△ = Control point held in adjustment

□ = Tie point held in adjustment

STRIP #30-1

| | <u>STATION NAME</u> | <u>POINT NO.</u> | <u>VALUES IN FEET</u> | |
|---|----------------------------------|------------------|-----------------------|------|
| | | | X | Y |
| | Barbers Pt. Lighthouse New, 1933 | 52100 | -0.9 | -1.6 |
| △ | Barbers Pt. Lighthouse Sub | | | |
| | Pt. 1A | 52101 | -1.0 | 0.6 |
| △ | State Survey 9-3, 1969 Sub | | | |
| | 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 |
| △ | 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 | | | |
| | Tower | 181110 | -0.7 | 4.7 |
| | Honolulu Inter. Airport | | | |
| | Control Twr. Beacon '64 | 158110 | -1.0 | 0 |
| | Honolulu Moanalua Water Tank, | | | |
| | 1957 | 183110 | -1.7 | 2.2 |
| | Aliamanu Honolulu Board of | | | |
| | Water Supply Tank, '69 | 184110 | -0.7 | -0.7 |
| △ | State Survey 1-13, 1969 Sub | | | |
| | Pt. 4A | 149101 | 1.7 | 0.4 |
| △ | State Survey 1-13, 1969 Sub | | | |
| | Pt. 4B | 149102 | -2.0 | -1.6 |

STRIP #30-2

| | | | | |
|---|---------------------------------|--------|------|------|
| △ | 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 |

| | | | |
|----------------------------|-------|------|------|
| △ State Survey 3-6, 1969 | | | |
| Sub Pt. 8A | 63101 | 2.8 | 0 |
| NIU Water Tank, 1963 | 57100 | -2.4 | -1.8 |
| △ Kuapa, 1928 Sub Pt. 9A | 55101 | -2.8 | 0.8 |
| Kuapa, 1928 Sub Pt. 9B | 55102 | -4.7 | -3.0 |
| △ Makapuu Pt. 1872 RM3 Sub | | | |
| Pt. 10A | 47101 | 1.6 | 0.3 |
| Makapuu Pt. 1872 RM3 | 47110 | 3.5 | -1.2 |
| Makapuu Pt. Light, 1927 | 47120 | 4.1 | -1.5 |

STRIP #15-1

| | | | |
|--------------------------------|--------|------|------|
| □ Tie from Strip #30-1 | 63801 | 0.1 | -0.8 |
| | 63802 | 1.4 | -1.0 |
| | 63803 | 1.0 | -1.8 |
| △ State Survey 1-13 Sub Pt. 4A | 149101 | -0.3 | 0.7 |
| △ State Survey 1-13 Sub Pt. 4B | 149102 | -0.2 | 2.4 |
| △ Sand Island S. Base, 1927 | | | |
| Sub Pt. 5A | 120101 | -0.7 | 1.0 |
| △ Sand Island S. Base, 1927 | | | |
| Sub Pt. 5B | 120102 | 0 | -1.7 |
| △ DeRussy, 1927 Sub Pt. 6A | 84101 | 1.2 | 0.7 |
| △ Sub Pt. 6B | 84102 | -1.1 | -0.5 |

STRIP #15-2

| | | | |
|--------------------------------|--------|------|------|
| Tie from Strip #15-1 | 113801 | -0.1 | 0.7 |
| □ Tie from Strip #15-1 | 113802 | -0.1 | 0.3 |
| Sand Island S. Base, '27 | | | |
| Sub Pt. 5A | 120101 | -2.4 | -0.4 |
| △ Sand Island S. Base, '27 | | | |
| Sub Pt. 5B | 120102 | 0.6 | -1.5 |
| Honolulu Kewald Basin KGU Twr. | 118115 | -0.5 | 0 |
| Tie from Strip #15-1 | 118801 | -2.0 | 2.0 |
| Tie from Strip #15-1 | 118802 | -2.2 | 1.8 |
| Tie from Strip #15-1 | 118803 | -1.8 | 2.1 |
| △ DeRussy, 1927 Sub Pt. 6A | 84101 | -0.7 | 0.6 |
| DeRussy, 1927 Sub Pt. 6B | 84102 | -2.1 | -0.1 |
| Honolulu Kaiser Hotel KHVH | | | |
| Twr. '57 | 120120 | -2.5 | 0 |
| Tie from Strip #15-1 | 120801 | -2.0 | -0.1 |
| Tie from Strip #15-1 | 120802 | -1.0 | 0.6 |
| □ Tie from Strip #15-1 | 120803 | -1.2 | 1.8 |
| Tie from Strip #15-1 | 121801 | -0.8 | 2.0 |
| Tie from Strip #15-1 | 121802 | -1.5 | 1.3 |
| Tie from Strip #15-1 | 121803 | 0.1 | 1.9 |
| □ Tie from Strip #30-2 | 93801 | 1.4 | -1.2 |
| Tie from Strip #30-2 | 93802 | 0.6 | -3.9 |

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

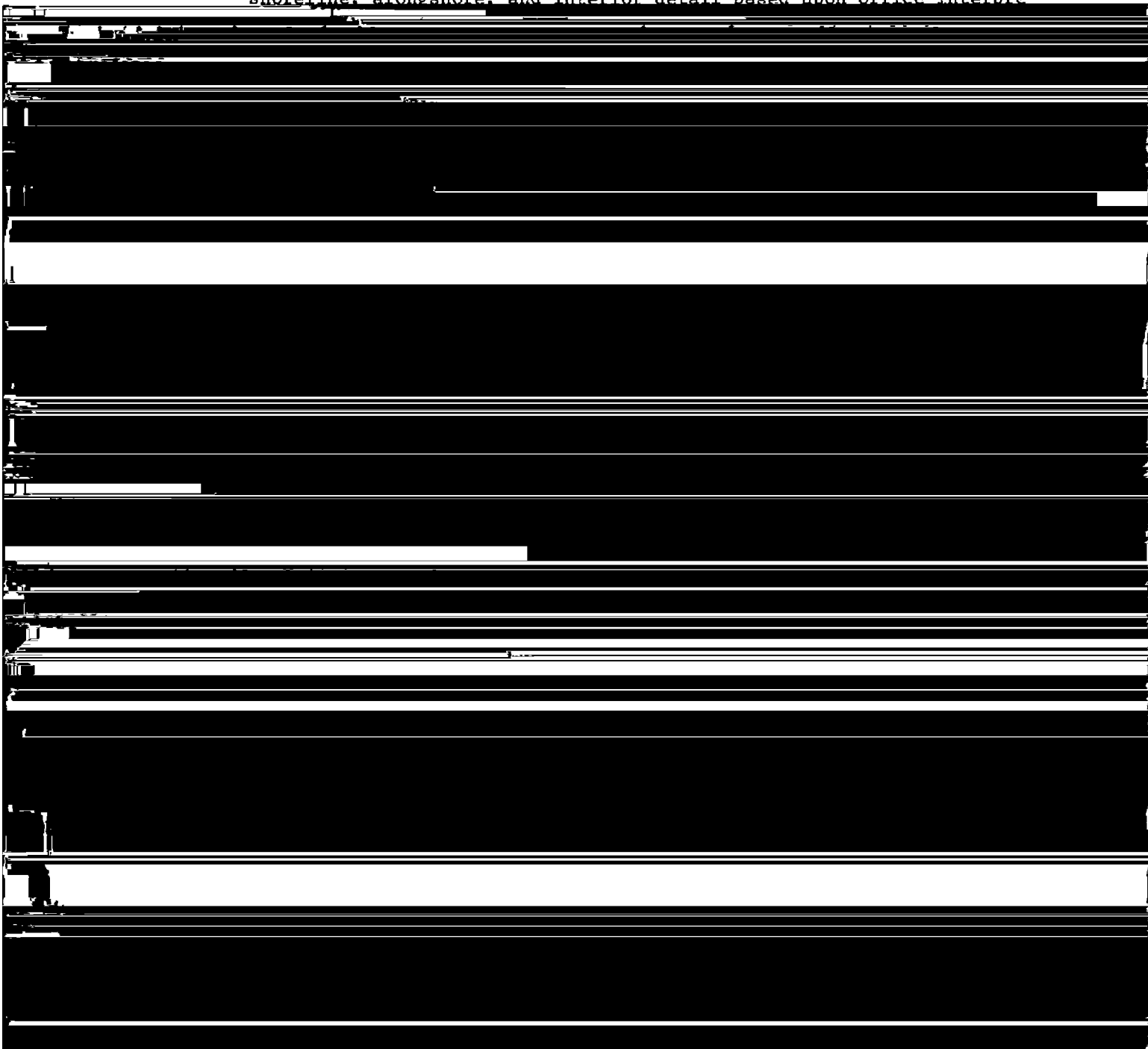
| U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | | | | | | | | | |
|--|----------------------------------|--------------------------------------|-------------------------------|-----------------------------------|---------------------|-------------|---------|--|--|
| DESCRIPTIVE REPORT CONTROL RECORD | | | | | | | | | |
| MAP NO. | JOB NO. | GEODEIC DATUM | | ORIGINATING ACTIVITY | | AMC | | | |
| TP-01299 | CM-8317 | Old Hawaiian Datum | | Coastal Mapping Unit, Norfolk, VA | | | | | |
| STATION NAME | SOURCE OF INFORMATION (Index) | AEROTRIANGULATION POINT NUMBER | COORDINATES IN FEET | | GEOGRAPHIC POSITION | | REMARKS | | |
| | | | STATE | ZONE | φ LATITUDE | λ LONGITUDE | | | |
| Kaimuki, 1872 | Quad 211573 ✓ Sta 1089 | 74 ✓ | X= | 21° 16' | 52.131" | ✓ | | | |
| | | | Y= | 157° 48' | 07.703" | ✓ | | | |
| State Survey 3-5, 1969 ✓ | 211573 ✓ Sta 1088 | 75100 ✓ | X= | 21° 16' | 06.330" | ✓ | | | |
| | | | Y= | 157° 48' | 14.568" | ✓ | | | |
| State Survey 3-6, 1969 ✓ | 211573 ✓ Sta 1080 | 63100 ✓ | X= | 221° 16' | 45.721" | ✓ | | | |
| | | | Y= | 157° 45' | 59.464" | ✓ | | | |
| Diamond Head Lighthouse, ✓ 1925 | 211 573 ✓ Sta 1253 | 76100 ✓ | X= | 21° 15' | 31.97" | ✓ | | | |
| | | | Y= | 157° 48' | 44.25" | ✓ | | | |
| Honolulu Sac Heart ACAD ✓ Cross, 1925 | 211573 ✓ Sta 1160 | 89110 ✓ | X= | 21° 17' | 20.939" | ✓ | | | |
| | | | Y= | 157° 48' | 33.786" | ✓ | | | |
| | | | X= | | | | | | |
| | | | Y= | | | | | | |
| | | | X= | | | | | | |
| | | | Y= | | | | | | |
| | | | X= | | | | | | |
| | | | Y= | | | | | | |
| | | | X= | | | | | | |
| | | | Y= | | | | | | |
| | | | X= | | | | | | |
| | | | Y= | | | | | | |
| | | | X= | | | | | | |
| | | | Y= | | | | | | |
| | | | X= | | | | | | |
| | | | Y= | | | | | | |
| COMPUTED BY | | | COMPUTATION CHECKED BY | | DATE | | | | |
| LISTED BY D. Miller | | | LISTING CHECKED BY F. Mauldin | | DATE 12-14-87 | | | | |
| HAND PLOTTING BY | | | HAND PLOTTING CHECKED BY | | DATE 12-29-87 | | | | |

COMPILATION REPORT

TP-01299

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 interpre-



TP-01299

37. LANDMARKS AND AIDS:

There are thirteen charted landmarks and one charted aid to navigation within the limits of this map. Among these, six landmarks and one aid 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:

Honolulu, Hawaii; dated 1983; scale 1:24,000
Koko Head, 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
19358; 16th edition; dated October 20, 1984; scale 1:20,000
19364; 20th edition; dated January 12, 1985; scale 1:20,000

TP-01299

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

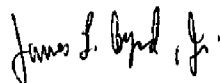
None.

Submitted by:



David R. Miller
Cartographer
December 17, 1987

Approved:



James L. Byrd, Jr.
Chief, Coastal Mapping Unit

GEOGRAPHIC NAMES

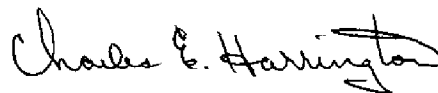
FINAL NAME SHEET

CM-8317 (Oahu, Hawaii)

TP-01299

| | |
|-------------------|-----------------------------|
| Aina Haina | Manoa-Palolo Drainage Canal |
| Ala Wai Canal | Maunalua Bay |
| Diamond Head | Oahu |
| Honolulu | Pacific Ocean |
| Kaalawai | San Souci Beach |
| Kahala | Waikiki |
| Kahala Beach | Waikiki Beach |
| Kupikipikio Point | Wailupe |
| Mamala Bay | Wailupe Peninsula |

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT
SHORELINE

TP-01299

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
KOKO HEAD, HAWAII, dated 1983, scale 1:24,000

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There are no contemporary hydrographic surveys within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following nautical charts:

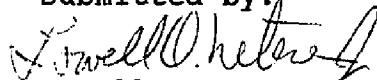
19013, 13th edition, dated February 12, 1983, scale
1:675,000
19357, 17th edition, dated October 15, 1983, scale
1:80,000
19358, 16th edition, dated October 20, 1984, scale
1:20,000.
19364, 20th edition, dated January 12, 1985, scale
1:20,000

TP-01299

66. 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:

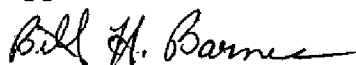


Lowell O. Neterer, Jr.

Final Reviewer

March 1989

Approved for Forwarding:



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 1

PROJECT: CM-8317

MAP NUMBER (Scale); Locality: TP-01299; 1:10,000; Barbers Point
to Makapuu Point, Oahu, Hawaii

GEODETTIC 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 Q.C. | DATE OF LOCATION |
|------------------------|-----------|--------------------------|----------------|-------------|---------------------|
| | | LATITUDE | LONGITUDE | | |
| DIAMOND HEAD LIGHT ✓ | 139 ✓ | 21 15 31.97 ✓ | 157 48 44.25 ✓ | 3 ✓ | 03-09-86 ✓ |
| HOTEL CUPOLA ✓ | 086 ✓ | 21 16 50.20 ✓ | 157 49 54.40 ✓ | 7 ✓ | 03-09-86 ✓ |
| TOWER ✓ | 086 ✓ | 21 17 30.20 ✓ | 157 49 35.80 ✓ | 7 ✓ | 03-09-86 ✓ |
| FLAGPOLE ✓ | 086 ✓ | 21 17 33.50 ✓ | 157 48 39.20 ✓ | 7 ✓ | 03-09-86 ✓ |
| CUPOLA ✓ | 139 ✓ | 21 17 20.94 ✓ | 157 48 33.79 ✓ | 3 ✓ | 03-09-86 ✓ |
| RADIO TOWER ✓ | 086 ✓ | 21 17 07.80 ✓ | 157 48 08.30 ✓ | 7 ✓ | 03-09-86 ✓ |
| TOWER (FIRE STATION) ✓ | 086 ✓ | 21 16 53.70 ✓ | 157 48 07.80 ✓ | 7 ✓ | 03-09-86 ✓ |
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Listing approved by:

Lowell O. Hitt
FINAL REVIEWER

April 12, 1989
DATE

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. |
| | | | |
| | | | Full Part Before After Verification Review Inspection Signed Via |
| | | | Drawing No. |
| | | | |
| | | | Full Part Before After Verification Review Inspection Signed Via |

[illegible]