

TP 00650

TP- 00650

| | |
|---|------------------|
| NOAA FORM 76-35 (6-80) | |
| U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY | |
| DESCRIPTIVE REPORT | |
| Map No. TP-00650 | Edition No. 1 |
| Job No. CM-7711 | |
| Map Classification FINAL MAP | |
| Type of Survey SHORELINE | |
| LOCALITY | |
| State WASHINGTON | |
| General Locality SHILSHOLE BAY TO SAND POINT | |
| Locality UNION BAY | |
| 19 ₇₇ TO 19 ₇₈ | |
| 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 | | | |
| TYPE OF SURVEY | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> ORIGINAL | | | | | | | | | | | | | |
| <input type="checkbox"/> RESURVEY | | | | | | | | | | | | | |
| <input type="checkbox"/> REVISED | | | | | | | | | | | | | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Division AMC, Norfolk, Virginia OFFICER-IN-CHARGE Jeffrey G. Carlen | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">LAST PRECEDING MAP EDITION</td> </tr> <tr> <td colspan="2" style="text-align: center;">TYPE OF SURVEY</td> </tr> <tr> <td><input 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> | | LAST PRECEDING MAP EDITION | | TYPE OF SURVEY | | <input type="checkbox"/> ORIGINAL | | <input type="checkbox"/> RESURVEY | | <input type="checkbox"/> REVISED | |
| LAST PRECEDING MAP EDITION | | | | | | | | | | | | | |
| TYPE OF SURVEY | | | | | | | | | | | | | |
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| <input type="checkbox"/> RESURVEY | | | | | | | | | | | | | |
| <input type="checkbox"/> REVISED | | | | | | | | | | | | | |
| | | SURVEY TP- 00650 MAP EDITION NO. (1) MAP CLASS Final JOB PH CM-7711 | | | | | | | | | | | |
| I. INSTRUCTIONS DATED | | | | | | | | | | | | | |
| 1. OFFICE | | 2. FIELD | | | | | | | | | | | |
| Aerotriangulation October 26, 1977 | | Premarking April 20, 1977 | | | | | | | | | | | |
| Compilation November 17, 1977 | | Photography May 10, 1977 | | | | | | | | | | | |
| Amendment I December 05, 1977 | | Supplement October 3, 1977 | | | | | | | | | | | |
| II. DATUMS | | | | | | | | | | | | | |
| 1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN | | OTHER (Specify) | | | | | | | | | | | |
| 2. VERTICAL: <input 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) Lake Washington chart datum (Low Water of the Lake is Seattle MLLW plus 20.00 feet.) | | | | | | | | | | | |
| 3. MAP PROJECTION Lambert Conformal Conic | | 4. GRID(S) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">STATE</td> <td style="width:50%;">ZONE</td> </tr> <tr> <td>Washington</td> <td>North</td> </tr> </table> | | STATE | ZONE | Washington | North | | | | | | |
| STATE | ZONE | | | | | | | | | | | | |
| Washington | North | | | | | | | | | | | | |
| 5. SCALE 1:5,000 | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">STATE</td> <td style="width:50%;">ZONE</td> </tr> <tr> <td></td> <td></td> </tr> </table> | | STATE | ZONE | | | | | | | | |
| STATE | ZONE | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| III. HISTORY OF OFFICE OPERATIONS | | | | | | | | | | | | | |
| OPERATIONS | | NAME | DATE | | | | | | | | | | |
| 1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY | | S. Solbeck | Dec 1977 | | | | | | | | | | |
| | | J. Perrow | Dec 1977 | | | | | | | | | | |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY | | S. Solbeck | Dec 1977 | | | | | | | | | | |
| | | J. Perrow | Dec 1977 | | | | | | | | | | |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY | | R. Kravitz | Mar 1978 | | | | | | | | | | |
| | | L. Neterer, Jr. | Mar 1978 | | | | | | | | | | |
| | | N.A. | | | | | | | | | | | |
| | | N.A. | | | | | | | | | | | |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: Smooth drafted CHECKED BY SCALE: 1:5,000 CONTOURS BY HYDRO SUPPORT DATA BY CHECKED BY | | R. Kravitz | Apr 1978 | | | | | | | | | | |
| | | F. Margiotta | Apr 1978 | | | | | | | | | | |
| | | N.A. | | | | | | | | | | | |
| | | N.A. | | | | | | | | | | | |
| | | N.A. | | | | | | | | | | | |
| | | N.A. | | | | | | | | | | | |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | | F. Margiotta | Apr 1978 | | | | | | | | | | |
| 6. APPLICATION OF FIELD EDIT DATA BY | | J. Yennie | Oct 1978 | | | | | | | | | | |
| | | J. R. Minton | Dec 1978 | | | | | | | | | | |
| 7. COMPILATION SECTION REVIEW BY | | D. Butler | Nov 1983 | | | | | | | | | | |
| 8. FINAL REVIEW BY | | L. Neterer, Jr. | Mar 1985 | | | | | | | | | | |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | | L. Neterer, Jr. | June 1985 | | | | | | | | | | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | | P. Dempsey | Aug 1985 | | | | | | | | | | |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY | | E. DAUGHERTY | SEP 1985 | | | | | | | | | | |

TP-00650
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| | | | | | |
|---|-------------|--|----------|---|--|
| CAMERA(S) Wild R.C. - 10"B" (Focal length= 152.74 mm) | | 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) <u>PANCHROMATIC</u> (I) INFRARED | | ZONE Pacific MERIDIAN 120°W <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| 77B(P)7877-7878 | Aug 1, 1977 | 14:46 | 1:15,000 | Lake Washington chart datum plus 0.57 feet | |
| 77B(P)7805-7808 | Aug 1, 1977 | 14:21 | 1:15,000 | Lake Washington chart datum plus 0.57 feet | |

REMARKS

Lake Union and Lake Washington chart datum (low water of the lake) is Seattle MLLW plus 20,000 feet.

2. SOURCE OF MEAN HIGH-WATER LINE:

The lake shoreline was compiled from the above listed panchromatic photographs.

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

Not applicable.

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 |
|----------|-----------|-----------|----------|
| TP-00646 | No survey | No survey | TP-00649 |

REMARKS

TP-00650

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|--|------------|----------|
| 1. CHIEF OF FIELD PARTY | R. Melby | Oct 1977 |
| 2. HORIZONTAL CONTROL | R. Melby | Oct 1977 |
| RECOVERED BY | None | |
| ESTABLISHED BY | None | |
| PRE-MARKED OR IDENTIFIED BY | L. Riggers | Oct 1977 |
| 3. VERTICAL CONTROL | None | |
| RECOVERED BY | None | |
| ESTABLISHED BY | None | |
| PRE-MARKED OR IDENTIFIED BY | None | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | R. Melby | Oct 1977 |
| RECOVERED (Triangulation Stations) BY | None | |
| LOCATED (Field Methods) BY | None | |
| IDENTIFIED BY | R. Melby | Oct 1977 |
| 5. GEOGRAPHIC NAMES INVESTIGATION | | |
| TYPE OF INVESTIGATION | | |
| <input type="checkbox"/> COMPLETE | | |
| <input type="checkbox"/> SPECIFIC NAMES ONLY | | |
| <input checked="" type="checkbox"/> NO INVESTIGATION | | |
| 6. PHOTO INSPECTION | None | |
| CLARIFICATION OF DETAILS BY | None | |
| 7. BOUNDARIES AND LIMITS | None | |
| SURVEYED OR IDENTIFIED BY | None | |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Paneled

2. VERTICAL CONTROL IDENTIFIED

None

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|---------------------------|--------------|---------------------|
| 77B-7946 | Webster Point Light, 1956 | | |

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|---------------------|--------------|-------------|
| 77B-7946 | Webster Point Light | | |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

2 Forms 76-53, 1 Form 155

TP-00650
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|---|----------------------------------|
| 1. CHIEF OF FIELD PARTY | C. W. Hayes | May 1978 |
| 2. HORIZONTAL CONTROL | RECOVERED BY L. F. Haas ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY L. F. Haas | May 1978 |
| 3. VERTICAL CONTROL | RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY L. F. Haas LOCATED (Field Methods) BY L. F. Haas IDENTIFIED BY L. F. Haas | May 1978 May 1978 May 1978 |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY L. F. Haas | May 1978 |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY None | |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
| | | | |

3. PHOTO NUMBERS (Clarification of details)

77B(P)7806 thru 7809

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|---------------------------|--------------|-------------|
| 77B(P)7807 | Webster Point Light, 1956 | | |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

Field Edit Ozalid
Field Edit Report

TP-00650
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

| COMPILATION STAGES | | | DATE MANUSCRIPT FORWARDED | |
|--|------------|----------------------|---------------------------|---------------|
| DATA COMPILED | DATE | REMARKS | MARINE CHARTS | HYDRO SUPPORT |
| Compilation complete pending field edit | March 1978 | Class III Manuscript | | |
| Field edit applied compilation complete | Oct. 1978 | Class I Manuscript | May 15, 1979 | |
| Final Review | Mar. 1985 | Final Map | | |
| | | | | |

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER (pages) | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|-------------------|---------------------------------|-------------------|--|
| 2 | | | 1 each of: Landmarks and Nautical Aids |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

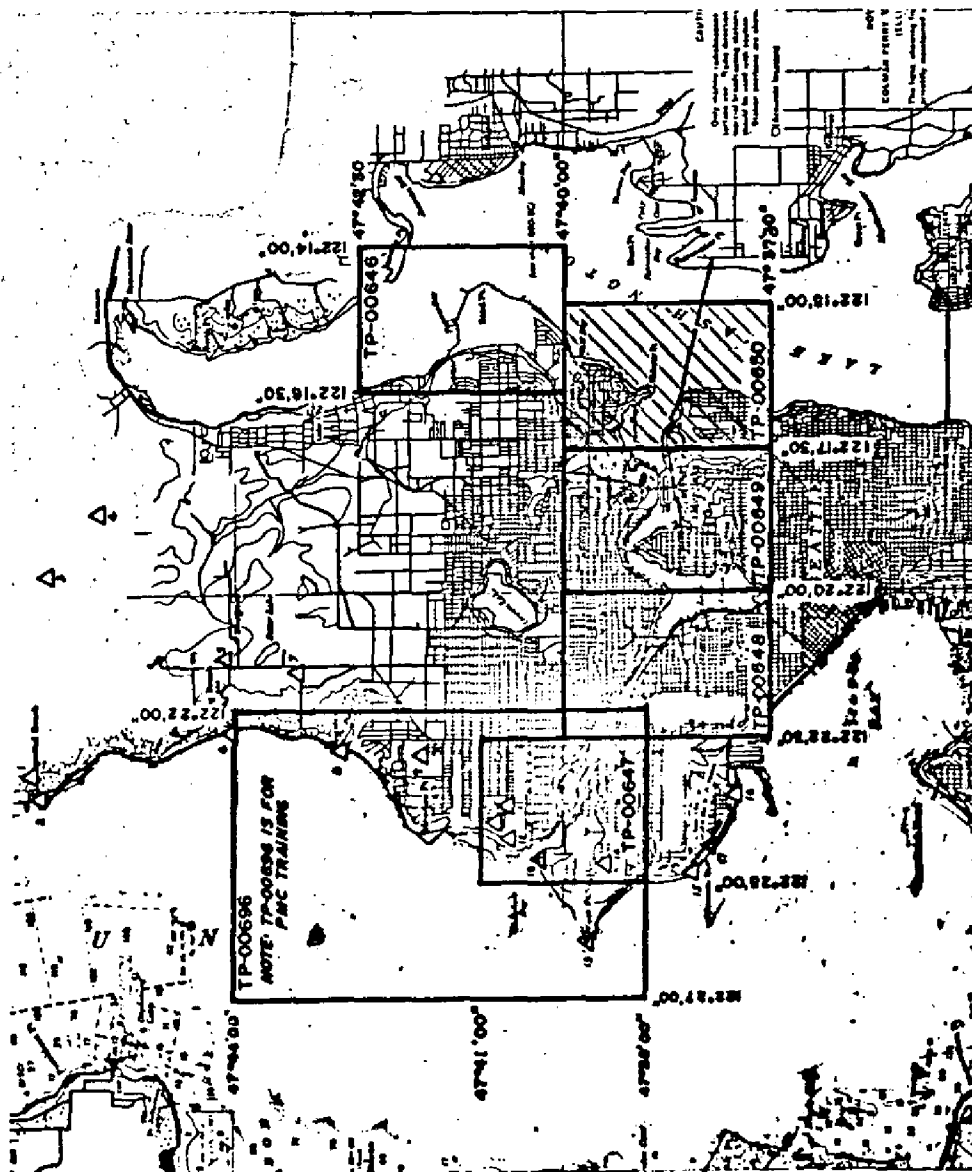
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☐ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

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 | |

CM-7711
SHILSHOLE BAY TO SAND PT.
WASHINGTON
SHORELINE MAPPING
SCALE 1:5000 @ 1:10,000



REVISED 8-30-77 RW.
REVISED 4-23-85 D.B.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00650

This 1:5,000 scale shoreline map is one of six maps that comprise project CM-7711, Shilshole Bay to Sand Point, Washington.

This project encompasses Sand Point, Washington on Lake Washington longitude 122°14'00" west including Lake Washington Ship Canal to Shilshole Bay longitude 122°27'00".

Photographic coverage was provided in August 1977 using the "B" camera (focal length 152.74 mm) with black and white Panchromatic film at 1:30,000 scale for bridging and 1:15,000 scale for compilation.

Field work done prior to compilation was accomplished in two parts. First the premarking of horizontal control in August 1977, second the photoidentification of horizontal control in October 1977. This was done to meet the requirements for aerotriangulation.

Analytic aerotriangulation was performed at the Washington Science Center in December 1977.

Compilation was performed and hydrographic support photographs were prepared at the Atlantic Marine Center in April, 1978.

Field edit was completed during May 1978.

The entire project was sent to the Pacific Marine Center in May 1978 and field edit application was completed there in December 1978.

Final Review was performed at the Atlantic Marine Center in March 1985.

This Descriptive Report contains all pertinent information used to compile this final map.

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

FIELD INSPECTION

TP-00650

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

8

PHOTOGRAMMETRIC PLOT REPORT
SHILSHOLE BAY TO SAND POINT
WASHINGTON

CM-7711

DECEMBER 1977

AREA COVERED

The area covered by this report is the shoreline surrounding the Washington Ship Canal, which bisects Seattle and links Puget Sound (Shilshole Bay) to Lake Washington (Sand Point).

Five 1:5,000 scale manuscripts are submitted: TP-00646 to TP-00650. TP-00696 was previously submitted.

METHOD

Four strips of 1:30,000 black-and-white panchromatic photography were bridged by analytic aerotriangulation methods. Field identified control was provided.

Common points were located on the bridging photography and the 1:15,000 scale compilation photography for ratio purposes. Additional common points were located on the same photography to allow for B-8 stereo compilation. Tie points were used to insure adequate junctioning of the bridging photography during the strip adjustments.

Ratio prints have been ordered. Manuscripts were ruled on the Coradomat.

Strips 77-B-7916-7921 (1:30,000) and 77-B-7905-7909 (1:20,000) were previously submitted upon their completion of the photogrammetric procedures described above.

ADEQUACY OF CONTROL

All control checked well within map Accuracy Standards.

SUPPLEMENTAL DATA

USGS quadrangles were used to provide vertical control for the strip adjustments.

PHOTOGRAPHY

The coverage, overlap, and quality of the photography proved adequate for the job.

Approved and Forwarded:

John D. Perrow, Jr.
Chief, Aerotriangulation Section

Respectfully Submitted:

Stephen H. Solbeck

ADEQUACY OF CONTROL
CM-7711

9

X

Y

STRIP 1

| | | |
|--------|-------|--------|
| 916100 | +.420 | -1.195 |
| 916101 | -.164 | + .044 |
| 918101 | +.584 | - .314 |
| 919101 | -.227 | + .511 |
| 920101 | -.540 | - .578 |
| 921101 | +.393 | + .337 |

STRIP 2

| | | |
|--------|--------|--------|
| 935101 | +.027 | - .835 |
| 935102 | -.293 | + .226 |
| 936101 | +1.496 | + .730 |
| 937101 | -1.341 | -1.665 |
| 937102 | +.046 | +1.151 |
| 921101 | -.194 | + .623 |
| 919101 | -.099 | + .279 |
| 920101 | +.358 | - .510 |
| 921101 | +.062 | + .956 |

STRIP 3

| | | |
|--------|--------|--------|
| 947100 | -.071 | + .991 |
| 935101 | -.352 | + .678 |
| 935102 | +.170 | -1.920 |
| 936100 | -2.826 | -1.731 |
| 936101 | +.440 | + .151 |
| 937101 | -1.173 | -1.082 |
| 937102 | +.988 | +1.181 |

STRIP 4

| | | |
|--------|--------|--------|
| 945101 | -.000 | - .001 |
| 945102 | -2.819 | -1.164 |
| 935101 | -.000 | - .000 |
| 935102 | +1.301 | +1.072 |
| 947100 | +1.030 | +2.062 |
| 936100 | +.001 | + .002 |
| 936101 | +.237 | + .746 |

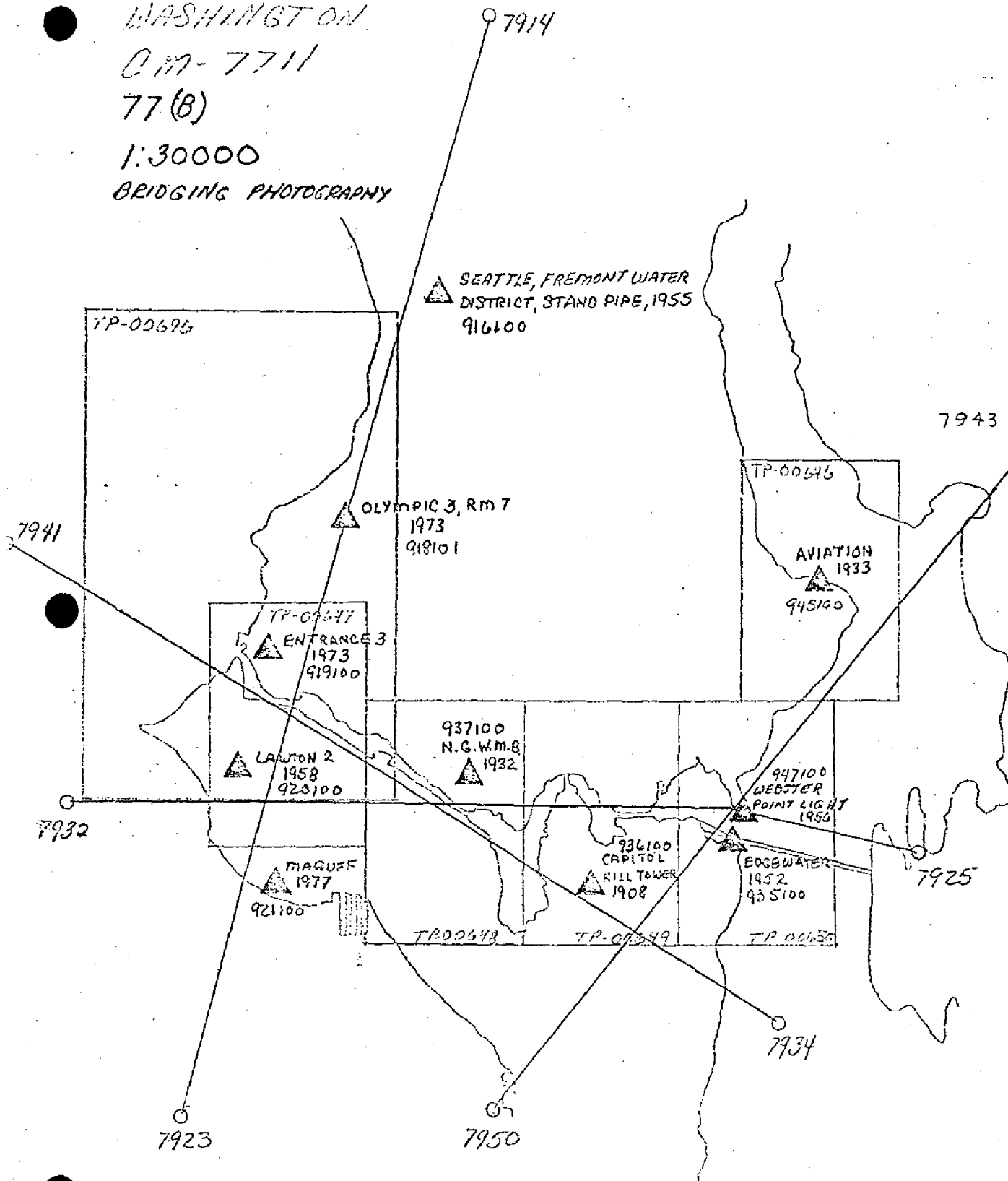
SHILSHOLE BAY TO SAND POINT WASHINGTON

OM-7711

77(B)

1:30000

BRIDGING PHOTOGRAPHY



SHILSHOLE BAY TO SAND POINT WASHINGTON

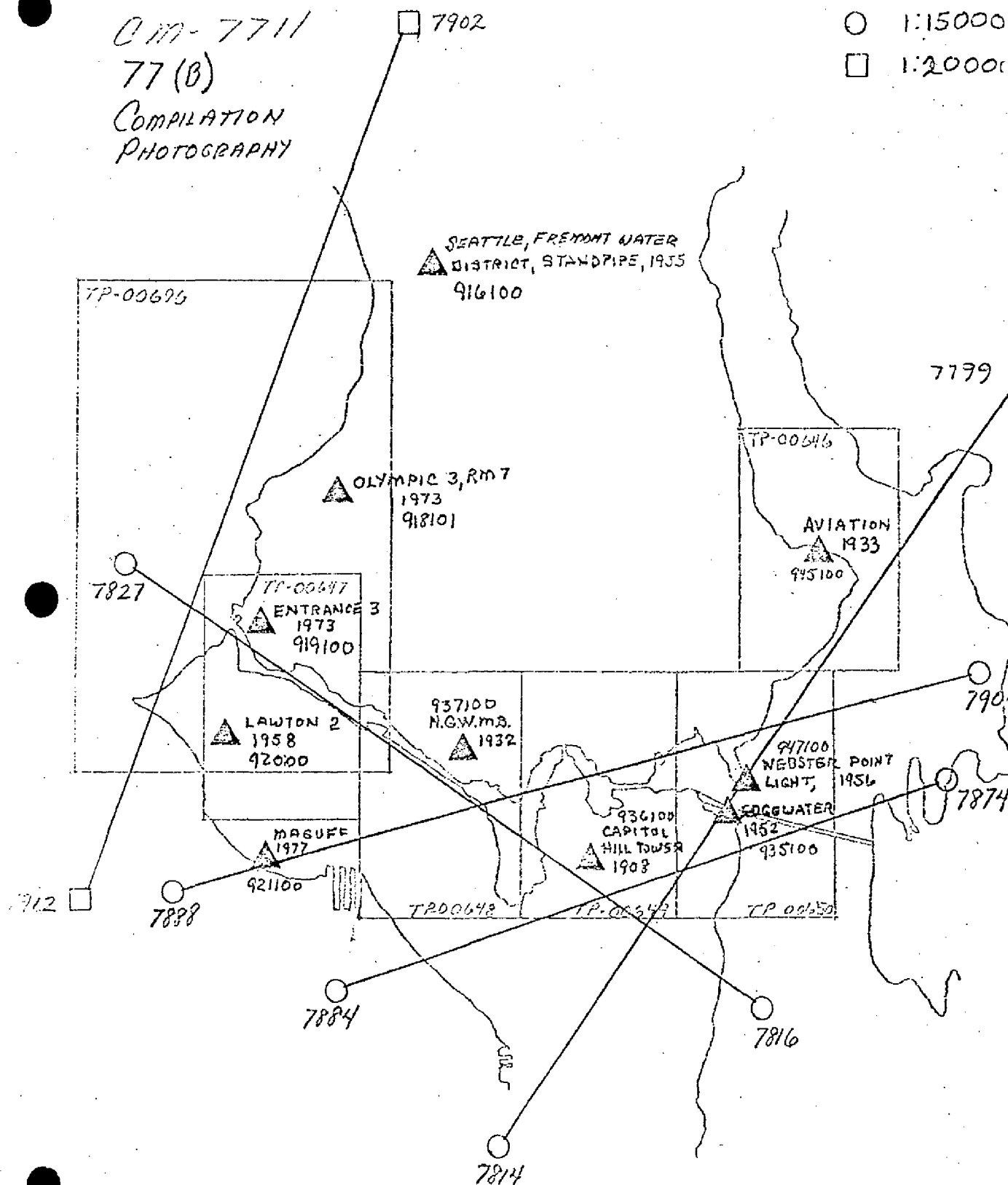
CM-7711

77 (B)

COMPILATION
PHOTOGRAPHY

○ 1:15000

□ 1:20000



COMPILATION REPORT
CM-7711
TP-00650

31 - DELINEATION

Delineation was by instrument method using the Wild B-8 stereoplotter and 1:15,000 scale panchromatic photographs. Coverage and quality of the photographs were adequate for compilation.

32 - CONTROL

The placement, identification, and accuracy of the aero-triangulated control, that was furnished for the express purpose of controlling the stereo-models, was adequate. Refer to the Photogrammetric Plot Report dated December 1977.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter, and supplemented by office stereoscopic interpretation of the ratio photographs which were controlled with pass points that were selected and dropped during the stereo-instrument compilation of the shoreline and interior detail.

36 - OFFSHORE DETAILS

None.

37 - LANDMARKS AND AIDS

There were 3 charted landmarks and 1 charted nonfloating aids to navigation within the mapping limits of this manuscript. All of these were located photogrammetrically.

TP-00650

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

40 - HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangle Seattle North, Washington, scale 1:24,000, dated 1949, photorevised 1968.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with National Ocean Survey Chart 18447, scale 1:25,000 (and with a 1:10,000 scale inset), dated February 19, 1977.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

J. Kravitz
Robert R. Kravitz
Cartographic Technician
March 28, 1978

Approved by

A. C. Hauck, Jr.
Albert C. Hauck, Jr.
Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

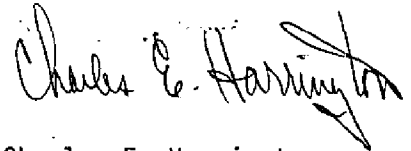
FINAL NAME SHEET

CM-7711 (Puget Sound, Washington)

TP-00650

| | |
|-----------------------------------|---------------|
| Evergreen Point Bridge (cultural) | Seattle |
| Foster Island | Union Bay |
| Lake Washington | Webster Point |
| Laurelhurst | Wolf Bay |
| Madison Park (locality) | |

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

Field Edit Report
TP-00650, S-N203-DA-78
Lake Washington/Union Bay, Wa.

METHODS

Field edit of sheet TP-00650 was accomplished in accordance with the project instructions for S-N203-DA-78, the survey of Lake Washington and the Ship Canal, dated 9 January 1978, and with PMC OORDER and the NOAA publication Field Edit Surveys. Field investigation and verification of compiled features was conducted on 8 May and 25 May 1978 (JD's 128 and 145), from a Boston whaler running just offshore. A paper discrepancy print and cronapague photos of the area (photos 77B(P) 7806 through 7809) were taken into the field for comparison with existing features. Many items not compiled were found on the photos by close inspection. Those items not visible on the photos were located by three-point sextant fix while the skiff was tied up to the object in question. Data for these four fixes is included in this report package rather than a sounding volume.

Water heights during field edit operations were monitored by the Army Corps of Engineers at the Hiram S. Chittenden Locks in Seattle, Washington. On both days of field work the Lake was at a level of +1.9 feet over the standard datum (20.0 ft above MLLW). See the Water Level Note for project S-N203-DA-78.

The weather was clear and warm and the water was calm during field work on 8 May, with visibility through the water more than 15 feet. On 25 May, the weather was clear and sunny with a 15 kt. south wind, making the Lake very choppy and reducing water visibility to 3 to 5 feet.

Data collected during field investigations is represented on the master film ozalid of sheet TP-00650, and on the cronapague ratio photos 77B(P) 7806, 77B(P) 7807, 77B(P) 7808, and 77B(P) 7809.

ADEQUACY AND COMPLETENESS OF COMPILATION

The manuscript was adequate and mostly complete as compiled. Many pilings easily visible on the photos were not compiled throughout the area. It is now complete with field edit applied. The entire manuscript has been field examined and verified.

MANUSCRIPT ACCURACY

The manuscript is accurate as compiled. Photo-picked signals were quite adequate for location of several piles and a pier ruin on the south shore of Union Bay and the east shore of Lake Washington south of the Ship Canal. Fix positions were compared to photo positions for accuracy checks.

RECOMMENDATIONS

The manuscript was not complete as submitted to the ship; many items easily visible on the photos were left off the compiled sheet. This may have been due to the high priority placed on compilation of the sheets for this project, resulting in less-than-complete manuscripts. However, much field work was required to correct and fill in the manuscript.

Submitted by,

Linda F. Haas

Linda F. Haas
ENS, NOAA

Approved and forwarded by

for C. W. Boednar
C. William Hayes

CDR, NOAA
Commanding Officer

REVIEW REPORT
SHORELINE

TP-00650

61 - GENERAL STATEMENT

See Summary included with this report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISONS WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle: Seattle North, 1:24,000 scale dated 1949, photorevised 1968.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with registered copies of hydrographic surveys H-9742, scale 1:10,000, dated February through June 1978 H-9747, scale 1:5,000, dated March through July 1978.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following N.O.S. Chart: 18447, 21st edition, dated April 1984, scale 1:10,000 and 1:25,000.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by



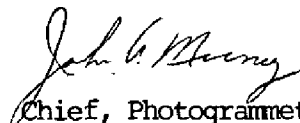
Lowell O. Neterer, Jr.
Final Reviewer
March 22, 1985

Approved for forwarding,

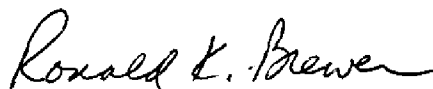


Billy H. Barnes
Chief, Photogrammetric Section

Approved



Chief, Photogrammetric Section,
Rockville



Chief, Photogrammetry Branch,
Rockville

NOAA FORM 76-40
(8-74)

**U.S. DEPARTMENT OF COMMERCE
AND ATMOSPHERIC ADMINISTRATION**

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

[illegible]

| RESPONSIBLE PERSONNEL | |
|---|--|
| TYPE OF ACTION | NAME |
| OBJECTS INSPECTED FROM SEAWARD | C. F. HAAS |
| POSITIONS DETERMINED AND/OR VERIFIED | C. F. HAAS |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES | J. D. YENDRE |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' | |
| (Consult Photogrammetric Instructions No. 64.) | |
| OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75 | FIELD (Cont'd) B. Photogrammetric field positions* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982 |
| FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 | III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods. |
| *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. | |

Original to Chats 05/15/79

[illegible]

| RESPONSIBLE PERSONNEL | |
|---|---|
| TYPE OF ACTION | NAME |
| OBJECTS INSPECTED FROM SEAWARD | L. F. HAAS |
| POSITIONS DETERMINED AND/OR VERIFIED | L. F. HAAS |
| | J. D. YERUIE |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES | <input checked="" type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify) |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' | |
| (Consult Photogrammetric Instructions No. 64.) | |
| OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75 | FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982 |
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| *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. | |

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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 Re-

FORM C&GS-8332 SUPERSEDES ALL EDITIONS OF FORM C&GS-878.