

TP-00646

TP-00646

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00646	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 SAND POINT	
19 77 TO 19 78	
REGISTERED IN ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

☒ ORIGINAL☐ RESURVEY☐ REVISED

SURVEY TP. 00646

MAP EDITION NO. (1)

MAP CLASS Final

JOB ~~PH~~ CM-7711

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division
AMC, Norfolk, Virginia

OFFICER-IN-CHARGE

Jeffrey G. Carlen

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

☐ ORIGINAL☐ RESURVEY☐ REVISED

JOB PH. _____

MAP CLASS _____

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation October 27, 1977
Compilation November 17, 1977
Amendment I December 5, 1977

2. FIELD

Premarking April 20, 1977
Photography May 10, 1977
Supplement I October 3, 1977

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

- ☐
- MEAN HIGH-WATER
-
- ☐
- MEAN LOW-WATER
-
- ☐
- MEAN LOWER LOW-WATER
-
- ☐
- 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)

STATE

Washington

ZONE

North

5. SCALE

1:5,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	S. Solbeck	Dec 1977
METHOD: Analytic	LANDMARKS AND AIDS BY	J. Perrow	Dec 1977
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	S. Solbeck	Dec 1977
METHOD: Coradomat	CHECKED BY	J. Perrow	Dec 1977
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	J. Roderick	Mar 1978
COMPILATION	CHECKED BY	L. Neterer, Jr.	Mar 1978
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:5,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J. Roderick	Mar 1978
	CHECKED BY	J. Byrd	Apr 1978
METHOD: Smooth Drafted	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:5,000	HYDRO SUPPORT DATA BY	J. Roderick	Mar 1978
	CHECKED BY	J. Byrd	Apr 1978
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Byrd	Apr 1978
	BY	G. Morris	Aug 1978
6. APPLICATION OF FIELD EDIT DATA	CHECKED BY	J. R. Minton	Dec 1978
7. COMPILATION SECTION REVIEW	BY	D. Butler	Oct 1983
8. FINAL REVIEW	BY	L. Neterer, Jr.	Mar 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	L. Neterer, Jr.	Mar 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	Aug 1985
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E. DAUGHERTY	SEP 1985

TP-00646
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC - 10"B"	(Focal length= 152.74 mm)	TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY			ZONE Pacific	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
			MERIDIAN 120° W	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
77B(P)7803 thru 7805	Aug.1,1977	14:21	1:15,000	Lake Washington chart datum +0.57 feet

REMARKS

Lake Union and Lake Washington chart datum (low water of the lake) is Seattle MLLW plus 20.00 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
No survey	No survey	TP-00650	No survey

REMARKS

TP-00646
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	Oct 1977
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY L. Riggers	Oct 1977 Oct 1977 Oct 1977
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 None LOCATED (Field Methods) BY None IDENTIFIED BY None	
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	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Paneled

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
77B7945	Aviation, 1933		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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)

1 ea Form 76-53

1 ea Form 155

1 ea Form 76-67

TP-00646
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Hayes	May 8, 1978
2. HORIZONTAL CONTROL	RECOVERED BY D. MacFarland	May 8, 1978
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
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 None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
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	CLARIFICATION OF DETAILS BY D. MacFarland	May 8, 1978
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

77B(p) 7803 - 7805

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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 Report TP-00646

Field Edit Ozalid TP-00646

Sounding Vol 1 for field edit TP-00646

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	Nov. 1978	Class I Manuscript	May 15, 1979	
Final Review	March 1985	Final Map		

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

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	

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00646

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

The 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.

Partial compilation was accomplished; this was limited to the map area south of latitude 47°41'15" and west of longitude 122°14'30". Hydrographic support photographs were prepared at the Atlantic Marine Center in April, 1978.

Field edit for this map 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- 00646

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.

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PHOTOGRAMMETRIC PLOT REPORT
SHILSHOLE BAY TO SAND POINT
WASHINGTON

CN-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

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

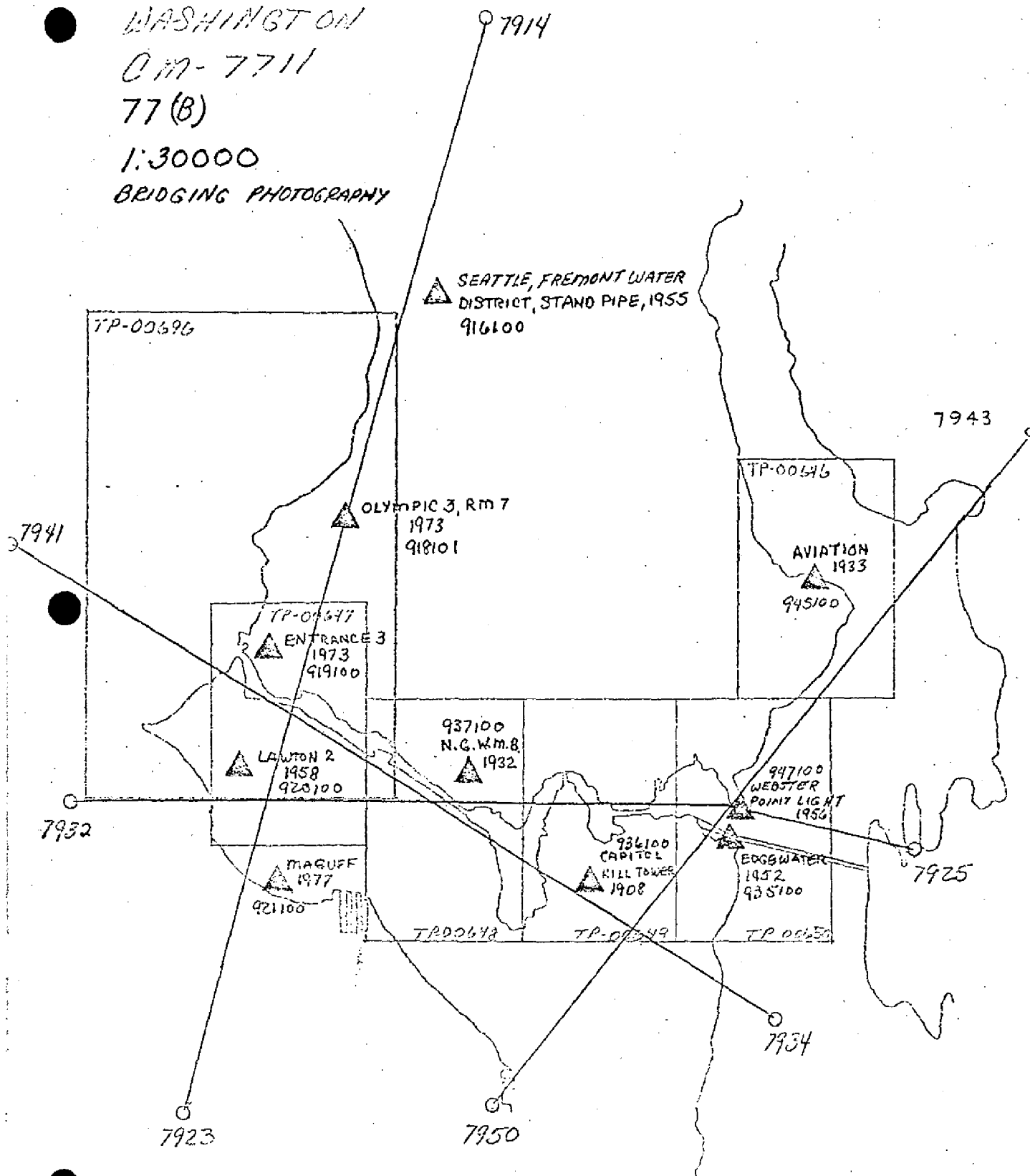
STRIP 3

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
 CM-7711
 77(B)
 1:30000
 BRIDGING PHOTOGRAPHY



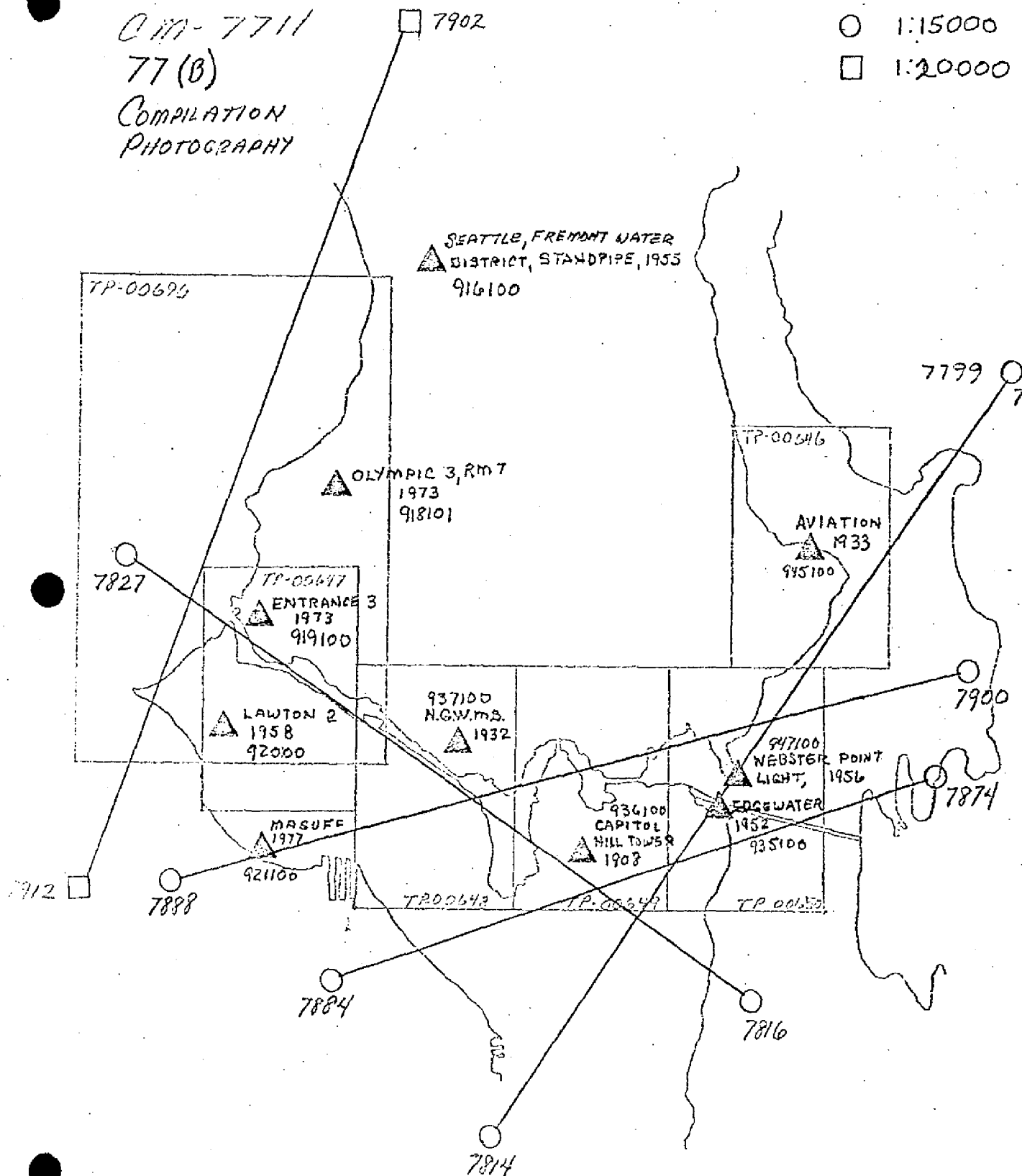
SHILSHOLE BAY TO SAND POINT WASHINGTON

CM-7711

77(B)

COMPILATION
PHOTOGRAPHY

○ 1:15000
□ 1:20000



COMPILATION REPORT
CM-7711
TP-00646

31 - DELINEATION

Delineation was by instrument method using the Wild B-8 stereoplotter and 1:15,000 scale panchromatic photographs. There was no photo coverage in the northwest corner of this map from latitude 47°41'15" north to latitude 57°42'30" and from longitude 122°14'00" west to 122°15'00"; this prevented the complete compilation of this manuscript. Otherwise, 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 and supplemented by office stereoscopic interpretation of the ratio photographs.

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 are no landmarks or charted nonfloating aids to navigation within the mapping limits of this manuscript.

TP-00646

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; and Kirkland, Washington, scale 1:24,000 dated 1950, photorevised 1968 and 1973.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with National Ocean Survey Chart 18447, 15th edition, scale 1:10,000 and 1:25,000, dated April, 1977.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

Joanne Roderick
Joanne Roderick
Cartographer
March 28, 1978

Approved by

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7711 (Puget Sound, Washington)

TP-00646

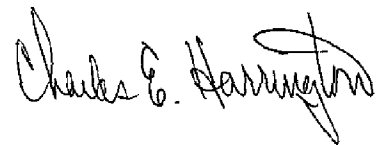
Lake Washington

National Oceanic and Atmospheric Administration

Sand Point

Seattle

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

TP 00646

David MacFarland

METHODS

Field edit on TP 00646 was accomplished in accordance with project instructions S-N203-DA-78, Lake Washington Ship Canal and Lake Washington, dated 9 January 1978, and PMC OPORTER procedures for Field Edit with hydroplot support and the Manual of Coastal Mapping Field Procedures Chapter 11.

A field print for TP 00646 and ratio photographs 77 B 7803, 77 B 7804 and 77 B 7805 were taken into the field to investigate and identify features. Items noted on the discrepancy print were transferred to the field print for investigation.

Field edit investigations were conducted on May 8, 1978 from skiff DA 3044 traveling as closely as possible to the shoreline. Three point sextant fixes were used to locate features not compiled on the topographic manuscript and not readily visible on the photographs. Data for these fixes are recorded in a sounding volume accompanying this report.

Weather was clear, wind calm and visibility through the water exceeded 15 feet.

Lake level was monitored by the Army Corps of Engineers at the Hiram S. Chittenden Locks, Seattle, Washington (see WL note).

Many of the piles discovered during the field edit are visible in the photographs.

Several objects not readily photo-identifiable were located with visual fixes.

The old Sand Point Naval Air Station is undergoing major changes. Many of the Naval buildings have been or will be torn down. Plans do exist to convert this area to other uses, including a city park. Future building in this area should be expected.

A new pier was located near latitude $47^{\circ}40'13''N$ and longitude $122^{\circ}15'13''W$ by hydrographic means, and plotted on TP 00646 from fixes 5003, 5004 and 5005 obtained on JD 135 (see survey H 9742).

MANUSCRIPT ACCURACY

The manuscript is accurate as compiled. Photo picked signals

were accurate for visual location of a small boat launching site at Sand Point. Measurements of pier length and separation were used to check the accuracy of the fixes.

RECOMMENDATIONS

Additional emphasis on completeness of compilation needs to be stressed. A large number of pilings, clearly visible on the photographs, were not compiled.

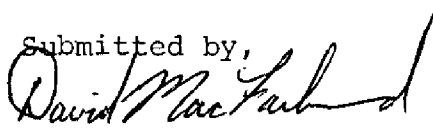
UNCHARTED DANGERS AND OBSTRUCTIONS TO NAVIGATION

No significant new obstructions were found during this field edit that should be placed on chart 18447 (scale 1:25,000).

ADEQUACY AND COMPLETENESS OF COMPILATION

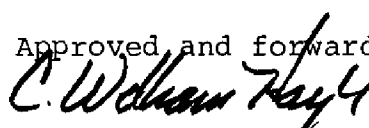
The manuscript TP 00646 compilation is adequate and complete with this field edit applied. The entire sheet has been field edited.

Submitted by,



David MacFarland
LCDR, NOAA

Approved and forwarded by,



C. William Hayes
CDR, NOAA
Commanding Officer

REVIEW REPORT
SHORELINE

TP-00646

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, dated 1949, photorevised 1968 and Kirkland Washington dated 1950, photorevised 1968 and 1973; both are 1:24,000 scale.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a registered copy of hydrographic survey H-9742, scale 1:10,000, dated February through June 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 14, 1985

Approved for forwarding,



Billy H. Barnes

Chief, Photogrammetric Section

Approved



Chief, Photogrammetric Section,
Rockville



Chief, Photogrammetry Branch,
Rockville

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 Rev

FORM CAGS-9352 SUPERSEDES ALL EDITIONS OF FORM CAGS-975.