

TP-00649

TP-00649

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00649	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 LAKE UNION - EAST	
19 <sup>77</sup> TO 19 <sup>80</sup>	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		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		SURVEY TP. <u>00649</u>  MAP EDITION NO. <u>(1)</u>  MAP CLASS <u>I</u>  JOB <u>PH. CM-7711</u>	
PHOTOGRAMMETRIC OFFICE  Coastal Mapping Division, AMC Norfolk, Virginia OFFICER-IN-CHARGE  Jeffrey G. Carlen		LAST PRECEDING MAP EDITION  TYPE OF SURVEY <input 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		LAST PRECEDING MAP EDITION  TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Aerotriangulation      October 26, 1977		Premarking      April 20, 1977	
Compilation      November 17, 1977		Photography      May 10, 1977	
Amendment I      December 5, 1977		Supplement I      October 3, 1977	
<b>II. DATUMS</b>			
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) STATE      ZONE Washington      North	
5. SCALE 1:5,000		STATE      ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytic      LANDMARKS AND AIDS BY		S. Solbeck	Dec 1977
		S. Solbeck	Dec 1977
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD:      CHECKED BY		S. Solbeck	Dec 1977
		S. Solbeck	Dec 1977
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION      CHECKED BY		J. Roderick	Apr 1978
INSTRUMENT: Wild B-8 SCALE: 1:5,000      CONTOURS BY		L. Neterer Jr./J. Byrd	Apr 1978
		N.A.	
		N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: Smooth drafted      CHECKED BY		J. Roderick	Apr 1978
SCALE: 1:5,000      CONTOURS BY		J. Byrd	May 1978
		N.A.	
		N.A.	
HYDRO SUPPORT DATA BY		N.A.	
		N.A.	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Byrd	May 1978
6. APPLICATION OF FIELD EDIT DATA BY		G. Morris	Apr 1980
		J. Minton	Apr 1980
7. COMPILATION SECTION REVIEW BY		D. Butler	Dec 1983
8. FINAL REVIEW BY		L. Neterer, Jr.	Apr 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

NOAA FORM 76-36B  
(3-72)

TP-00649

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

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R.C. - 10"B" 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) PANCHROMATIC (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) 7819-7820	Aug 1, 1977	14:30	1:15,000	Lake Washington chart datum +0.57 feet	
77B(P) 7893-7895	Aug 1, 1977	14:53	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).

## 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	TP-00650	No survey	TP-00648

## REMARKS

TP-00649  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	May 1978
2. HORIZONTAL CONTROL	RECOVERED BY L. Riggers	May 1978
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY L. Riggers	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 L. Riggers	May 1978
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
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 L. Riggers	May 1978
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

## 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)7819 and 7820

77B(P)7894 and 7895

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

Plot plan for Boat Moorage at St. Vincent De Paul

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

Field Edit Report

Field Edit Ozalid

Field Sketchbook

TP-00649  
HISTORY OF FIELD OPERATIONS1. ☒ 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
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 BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N A	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED AND PANELED

2. VERTICAL CONTROL IDENTIFIED  
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
77B(P)7936	Capital Hill Tower, 1908		

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

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

1 - Form 76-53, 1 - Form 76-67 and 1 - Form 155

TP-00649

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	CDR Austin	Apr 1980
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	J. Massey/Lt. Actor
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	Apr 1980

## II. SOURCE DATA

## 1. HORIZONTAL CONTROL IDENTIFIED

## 2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

## 3. PHOTO NUMBERS (Clarification of details)

77B(P) 7895, 77B(P) 7819

## 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

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

Field edit report with sketches  
Field edit Ozalid

TP-00649  
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	April 1978	Class III Manuscript		
1978 field edit applied compilation complete	Nov. 1978	Class I Manuscript	May 15, 1979	
1980 field edit applied compilation complete	April	Class I Manuscript	Aug. 29, 1985	
Final Review	March 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
3		May 15, 1979	Landmarks and Aids to be Charted
2		May 15, 1979	Landmarks and Aids to be Deleted

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	

The map displays the Hanoi area with a grid overlay. Key features include:

- TP-00696** (Note: TP-00696 is for PMC training)
- TP-00646**
- TP-00650**
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REVISED 8-30-77 RW.  
REVISED 4-23-85 D.B.



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00649

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.

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

Field edit accomplished twice. The first was from May through August 1978. The second field edit was done as a training operation at the Pacific Marine Center. This was completed in April 1980.

The entire project was sent to the Pacific Marine Center in May 1978 and field edit application was done in two parts: first application in November 1978, and the second in April 1980.

Final Review was performed at the Atlantic Marine Center in April 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-00649

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

9

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

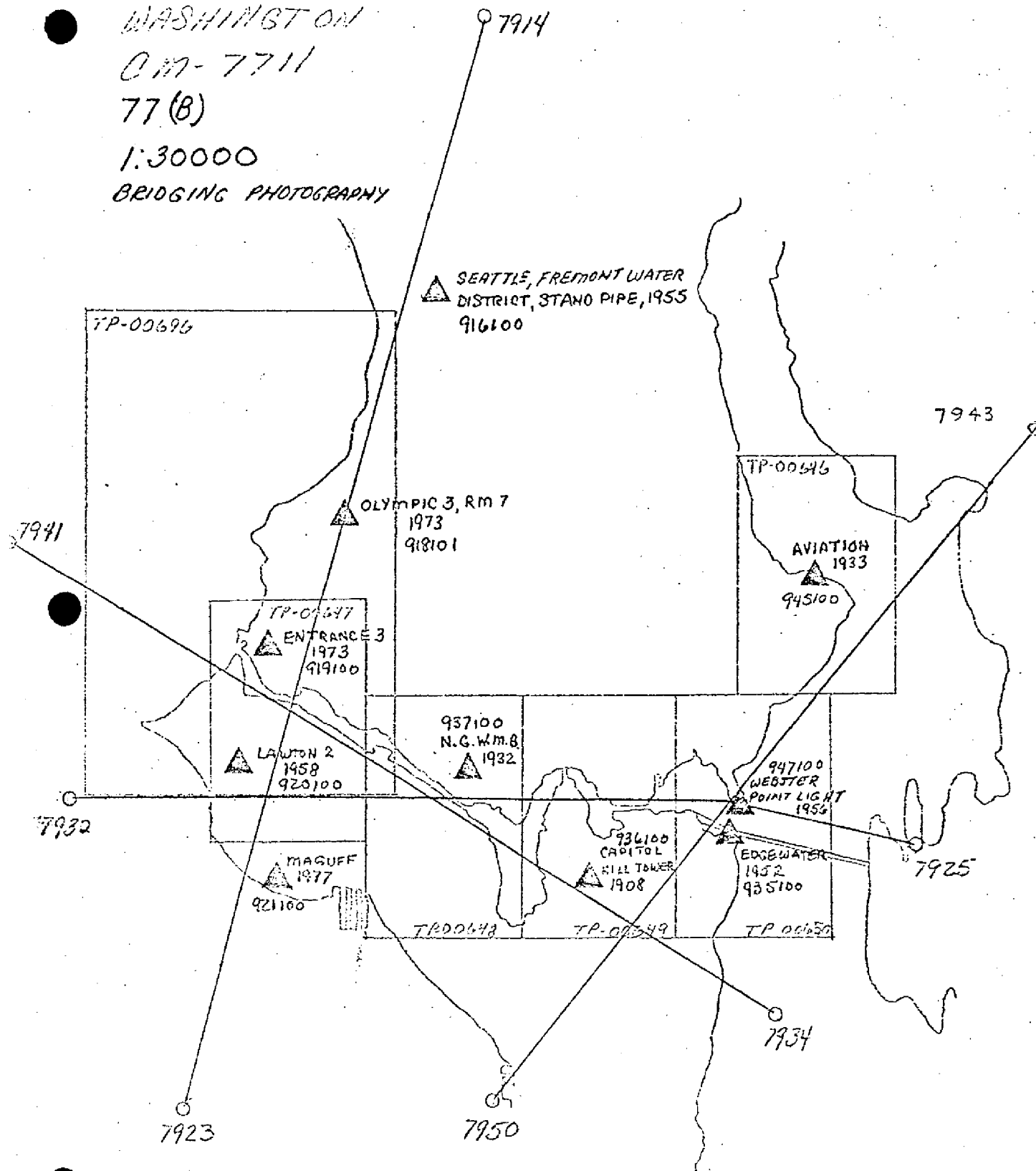
STRIP 3

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(8)  
 1:30000  
 BRIDGING PHOTOGRAPHY



# SHILSHOLE BAY TO SAND POINT WASHINGTON

CIN-7711

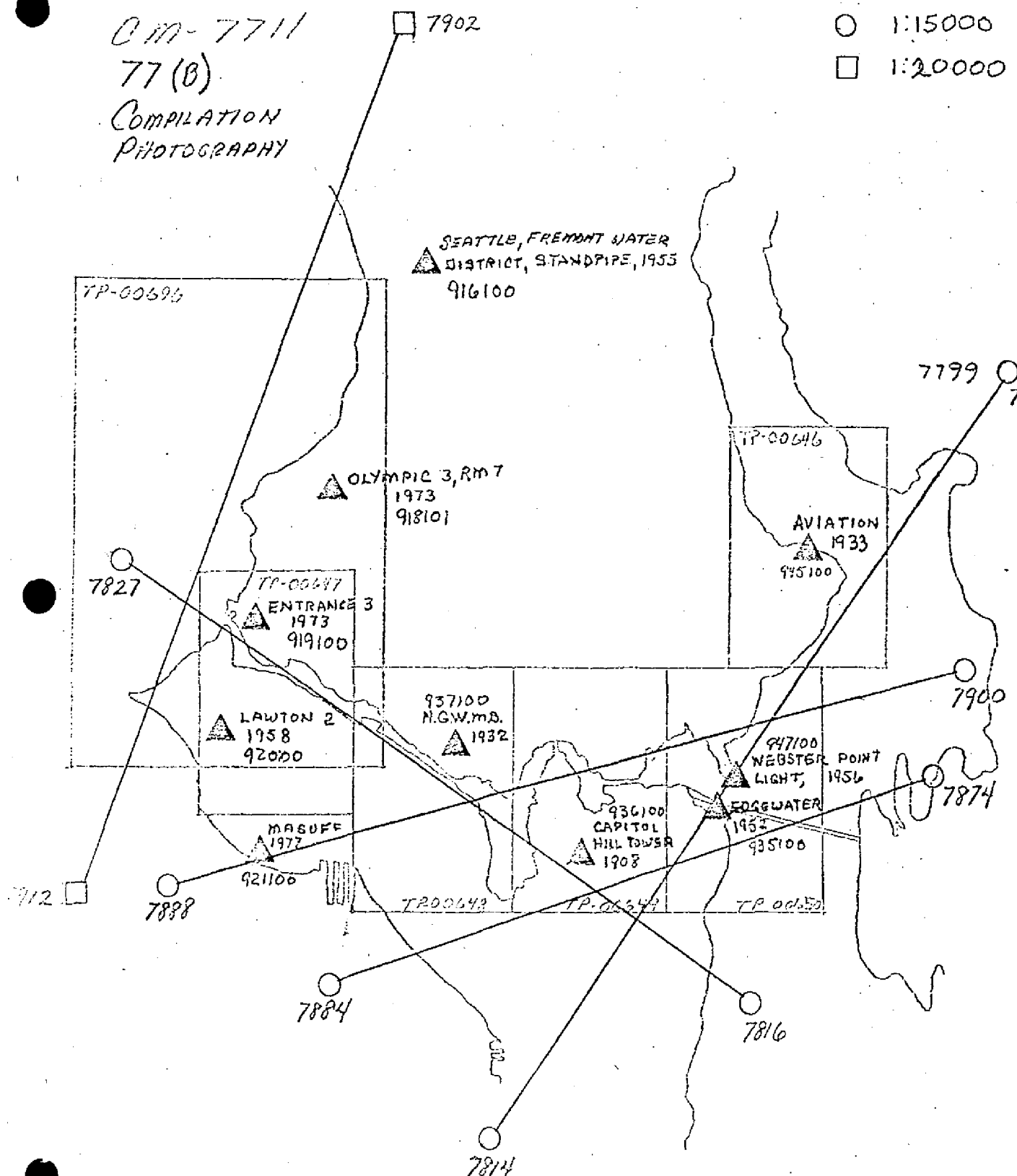
77 (B)

COMPILATION  
PHOTOGRAPHY

11

○ 1:15000

□ 1:20000



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00649	JOB NO. CM-7711	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM North American - 1927		ORIGINATING ACTIVITY Photogrammetric Branch, P.M.C.	
				COORDINATES IN FEET STATE Washington ZONE North	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS	
Capitol Hill Tower, 1980 <sup>28</sup>	Washington King County	936100	✓	x=	φ 47°37'45.113"		
				y=	λ 122°18'47.966"		
Saint Joseph, 1933	Washington King County	83	-	x=	φ 47°37'36.089"		
				y=	λ 122°18'25.456"		
Saint Marks Episcopal Church, Apex, 1932	Washington King County	936140	✓	x=	φ 47°37'55.588"		
				y=	λ 122°18'12.081"		
Seattle, Western Electric Company, Water Tank, 1952	Washington King County	81	✓	x=	φ 47°37'36.815"		
				y=	λ 122°19'54.035"		
Seattle, Yacht Club Spire, 1953	Washington King County	936141	✓	x=	φ 47°38'44.062"		
				y=	λ 122°18'26.287"		
				x=	φ		
				y=	λ		
				x=	φ		
				y=	λ		
				x=	φ		
				y=	λ		
				x=	φ		
				y=	λ		
				x=	φ		
				y=	λ		
				x=	φ		
				y=	λ		
COMPUTED BY				COMPUTATION CHECKED BY		DATE	
LISTED BY J. Moler				LISTING CHECKED BY J. Byrd		DATE 2/15/78	
HAND PLOTTING BY				HAND PLOTTING CHECKED BY		DATE 2/15/78	

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00649	JOB NO. CM-771	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM		ORIGINATING ACTIVITY	
					North American - 1927	Photogrammetric Branch, P.M.C.		
					COORDINATES IN FEET	GEOGRAPHIC POSITION		REMARKS
					STATE	$\phi$ LATITUDE	$\lambda$ LONGITUDE	
					ZONE			
Flo Villa, North Light, 1975		Field Form 76-45			X=	$\phi$ 47°38'19.838"	/	
					Y=	$\lambda$ 122°19'47.169"	/	
National Ocean Survey Dolphin Light, 1975		Field Form 76-45			X=	$\phi$ 47°38'12.689"	-	
					Y=	$\lambda$ 122°19'46.994"	/	
Portage Cut E. Ent. Lt., 1977		Field Form 76-45			X=	$\phi$ 47°38'49.823"	/	
					Y=	$\lambda$ 122°18'00.493"	-	
Portage Cut W. Ent. Lt., 1977		Field Form 76-45			X=	$\phi$ 47°38'49.895"	/	
					Y=	$\lambda$ 122°18'27.904"	/	
Seattle Ship Canal North Transmission Tower, Light 1975		Field Form 76-45			X=	$\phi$ 47°39'15.913"	/	
					Y=	$\lambda$ 122°19'18.051"	-	
Seattle Ship Canal South Transmission Tower, Light, 1975		Field Form 76-45			X=	$\phi$ 47°39'08.164"	-	
					Y=	$\lambda$ 122°19'18.187"	/	
University Power Plant, Stack, 1915		Washington King County			X=	$\phi$ 47°39'13.636"	/	
					Y=	$\lambda$ 122°18'08.309"	/	
Seattle Montlake Br. N Tower, 1977		Field Form 76-40			X=	$\phi$ 47°38'51.781"	/	
					Y=	$\lambda$ 122°18'12.664"	/	
Seattle Montlake Br. S Tower, 1977		Field Form 76-40			X=	$\phi$ 47°38'49.984"	/	
					Y=	$\lambda$ 122°18'11.548"	/	
					X=	$\phi$		
					Y=	$\lambda$		
COMPUTED BY				DATE	COMPUTATION CHECKED BY			DATE
LISTED BY G. A. Morris				DATE 11/15/78	LISTING CHECKED BY J. R. Minton			DATE 11/15/78
HAND PLOTTING BY G. A. Morris				DATE 11/15/78	HAND PLOTTING CHECKED BY J. R. Minton			DATE 11/15/78

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

-285



COMPILATION REPORT  
CM-7711  
TP-00649

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

Refer to Form 76-36B, item 2 for delineation of the shoreline.

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 eleven landmarks and seven nonfloating aids to navigation within the mapping limits of this manuscript. Eight of the landmarks were located photogrammetrically. One landmark's existence is doubtful (DERRICK), and two others are outside of the stereo-model limits. Only three of the aids were located photogrammetrically, while four were not visible on the photographs.

TP-00649

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Compilation Sources, Form 76-36B, item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated December 1977.

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, 15th edition, scale 1:10,000, dated February 19, 1977.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

*Joanne Roderick*  
Joanne Roderick  
Cartographer

Approved by

*J. Byrd for*  
Albert C. Rauck, Jr.  
Chief, Coastal Mapping Section

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

CM=7711 (Puget Sound, Washington)

TP-00649

Broadway

Burlington Northern (RR)

Foster Island

Freeway Bridge (cultural)

Lake Union

Montlake

Montlake Bridge (cultural)

Portage Bay

Portage Cut

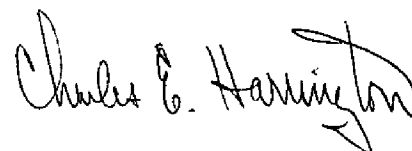
Seattle

Union Bay

University Bridge (cultural)

Wallingford

Approved by:



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

FIELD EDIT REPORT

SHILSHOLE BAY TO SAND POINT, WASHINGTON

MAY - AUGUST 1978

Map Manuscripts TP-00647, TP-00648, TP-00649, TP-00696

Project CM-7711

FIELD EDIT REPORT  
SHILSHOLE BAY TO SAND POINT, WASHINGTON  
MAY - AUGUST 1978  
Map Manuscripts TP-00647, TP-00648, TP-00649, TP-00696  
Project CM-7711

The field edit was originally assigned to the Ship DAVIDSON, but due to scheduling they were unable to finish. PMC Photo Party was then assigned the completion of the job.

The entire shoreline was inspected by using a small boat. Both a copy of the field edit sheet print and the photographs were used. If a discrepancy was noted, it would be compared with the photograph to see if it could be resolved that way. Several piles and dolphins were located this way.

All inquiries on the Master Field Edit Ozalids were answered. One statement asks for a recovery note on all of the control stations on each manuscript. This was altered as PMC has gone to the TENCOL (Terminal Entry Command Language) system and the recovery note (Form 76-165) is no longer used. At the time of this report the recovery notes and/or descriptions have not been sent to Rockville over the terminal, however, to aid the compiler, all those stations which have been recovered will have a statement to that effect on the Master Field Edit Ozalid. There were some recovery notes written in 1977. A copy of those will be sent with this report.

A copy of the field positions for new control completed in 1977 and 1978 will be sent with this report. Some control work was done in Lake Union by PMC personnel in 1975. This will also be sent with this report.

Adequacy of Compilation:

The extent and accuracy of the maps appear to be reasonably complete. Considering the congestion in the area, the compiler did a good job.

Some new piers, piles and dolphins were found that were constructed after the photography was taken. Plot plans were ~~were~~ obtained for most of the new piers. Corresponding features were marked on the plans and photographs to aid the compiler in orienting the plans with the shoreline. Other piers and dolphins were located with fixes and/or sketches. This information will be found in the sketchbook that will be submitted with the field edit data.

All fixed aids to navigation were located and/or verified. See the appropriate form 76-40.

All landmarks were checked in the field for their authenticity. See the appropriate form 76-40

Purple ink was used to indicate corrections on the Master Field Edit Ozalid. Green ink was used to indicate deletions. Red ink was used on the photographs.

There was a considerable lack of signs along the shoreline to indicate cable crossings and/or pipeline crossings. The Telephone Company, Seattle City Light, Seattle Sewer Department and the Seattle Water Department were all contacted to locate their crossings. These are indicated on the Master Field Edit Ozalid.

Information pertinent to each manuscript will be discussed under each listed manuscript number.

TP-00649

Two new piers and seven dolphins have been constructed since the photography was taken. A plot plan for the pier at St. Vincent de Paul was obtained. A building that is on both the plot plan and the photograph was indicated for aid in compiling this feature. The seven dolphins were located by setting a theodolite over a compiled photo point (the corner of a pier) and angles turned to two controlled intersection stations to the dolphins. Distance was obtained by stadia. This information is in the sketchbook.

The other pier was located by a three point fix at the south end of the pier. The information needed is in the sketchbook under Item 1.

TP-00648

Four new piers were built since the photographs were taken. Plot plans were obtained for Items 8 and 9.

Items 3 and 7 were sketched. See the sketchbook.

Several dolphins and piles were obscured by shadows at the northeast end of the George Washington Memorial Bridge. The position for these dolphins and piles was computed by the field editor. See attached computations sketchbook under Item 2.

TP-00647

On the Master Film Edit Ozalid the longitude line on the upper right hand corner is labeled as  $122^{\circ} 30' 00''$ . It should read  $122^{\circ} 22' 30''$ .

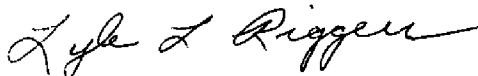
There are two small new piers in the Fisherman's Terminal area that have been built since the photographs were taken. See under Item 4 in the sketchbook.

TP-00696

There are several piles in ruins not on the manuscript or on the photograph. These were positioned with a theodolite three-point fix with angles and stadia distances to the piles. The records are on three sketchbook sheets. The three-point fix was computed by the field editor.

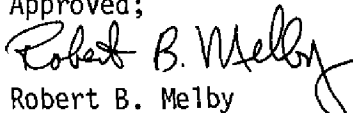
On the north shore at West Point there are several rocks that were not charted. These were located by setting a theodolite over a control station (SHAY, 1977) and taking angles and stadia distances to the rocks. The records are on a sketchbook page.

Respectfully submitted,



Lyle L. Riggers  
Surveying Technician

Approved;



Robert B. Melby  
PMC Photo Party CPM 133

Field Edit Report

TP - 00649

CM-7711

Aug. 1980



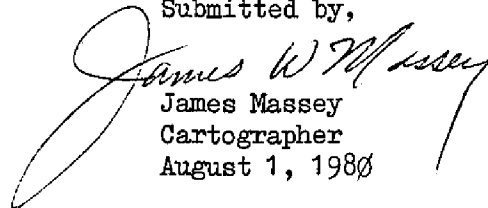
This manuscript was reinspected during April, 1980 by Lt(Jg) David Actor from the NOAA Ship Davidson and Jim Massey from the PMC Photogrammetric Branch. A number of new features are presented in the sketches attached to this report. These drawings are based on taped distances and sextant fixes with check angles. Geographic positions were computed from the fixes and are shown on the attached print out and plot. These features were plotted on the field edit ozalid and referenced to the appropriate sketch.

Additional detail was photo identified on chronopaque ratio prints 77B(P)7895 and 7819. Some of the detailed items were not transferred to the edit ozalid, but referenced to the appropriate photo.

No landmarks or aids were checked during this reedit operation, and consequently no Forms 76-40 are attached.

All verification and addition of detail was noted in red ink on the edit ozalid and photographs. All deletions are noted in green ink on the edit ozalid.

Submitted by,



James Massey  
Cartographer  
August 1, 1980

REVIEW REPORT  
SHORELINE

TP--00649

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 a registered copy of hydrographic survey H-9747, scale 1:5,000, dated March through July 1978.

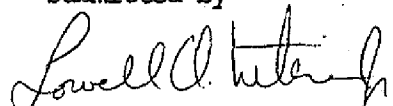
65 - COMPARISON WITH NAUTICAL CHARTS

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  
April 4, 1985

Approved for forwarding,



Billy H. Barnes  
Chief, Photogrammetric Section

Approved



John A. Mooney  
Chief, Photogrammetric Section,  
Rockville



Ronald K. Brewer  
Chief, Photogrammetry Branch,  
Rockville

**U.S. DEPARTMENT OF COMMERCE  
INDUSTRIAL AND AEROSPACE ADMINISTRATION**

NOAA FORM 76-40 (8-74)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		ORIGINATING ACTIVITY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILE ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH	
NONFLOATING AIDS OR LANDMARKS FOR CHARTS					
REPORTING UNIT (If Party Ship or Office) Photogrammetry Branch PMC, Seattle, WA		STATE  Washington	LOCALITY  Shilshole Bay to Sand Point	DATE  10/31/78	
Replaces C&GS Form 567.					
The following objects HAVE <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks. <input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED					

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	OFFICE ACTIVITY REPRESENTATIVE
ACTIVITIES	<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>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.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 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	<b>II. TRIANGULATION STATION RECOVERED.</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40 (8-74)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY	
Replaces C&GS Form 567.		<b>NON-FLUORATING AIDS OR LANDMARKS FOR CHARTS</b>				<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)	
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE		
		Photogrammetric Branch PMC, Seattle, WA	Washington	Shilshole Bay to Sand Point	10/31/78		
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.		JOB NUMBER		SURVEY NUMBER			
OPR PROJECT NO.		CM-7711		TP-00649			
S-N 303				N.A. 1927			
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	POSITION		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)	
		LATITUDE ° / ' / D.M. Meters	LONGITUDE ° / ' / D.P. Meters	OFFICE	FIELD	CHARTS AFFECTED	
TANK	(Seattle Western Electric Company, Water Tank, 1952)	47 37	36.815 122 19	54.035	Triang. Rec. 08/16/78	18447	
STACK	S.W. of Seven	47 37	51.45 122 19	35.88	V.-Vis. 08/23/78	18447	
TOWER	(Seattle, Ship Canal South Transmission Tower Light, 1975)	47 39	08.164 122 19	18.187	Triang. Rec. 05/23/78	18447	
TOWER	(Seattle, Ship Canal North Transmission Tower Light, 1975)	47 39	15.913 122 19	18.051	Triang. Rec. 05/23/78	18447	
CROSS	(Saint Marks Episcopal Church Apex, 1932)	47 37	55.588 122 19	12.081	Triang. Rec. 08/17/78	18447	
TOWER	(Capitol Hill, Tower, 1908)	47 37	45.113 122 18	47.966	Triang. Rec. 08/17/78	18447	
SPIRE	(Seattle Yacht Club Spire, 1953)	47 38	44.062 122 18	26.287	Triang. Rec. 05/24/78	18447	
TOWER	(Saint Josephs, 1933)	47 37	36.089 122 18	25.456	Triang. Rec. 08/17/78	18447	
TOWER	(Seattle Montlake Br N Twr, 1977)	47 38	51.781 122 18	12.664	Triang. Rec. 08/16/78	18447	
TOWER	(Seattle Montlake Br S Twr, 1977)	47 38	49.984 122 18	11.584	Triang. Rec. 08/16/78	18447	

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	OFFICE ACTIVITY REPRESENTATIVE
ACTIVITIES	<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>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.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> 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	<b>II. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	R. B. Melby
POSITIONS DETERMINED AND/OR VERIFIED	R. B. Melby
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	G. A. Morris
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.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions** require</b> 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
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>II. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vls.' and date. EXAMPLE: V-Vls. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent</b> entirely, or in part, upon control established by photogrammetric methods.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	



[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	R. B. Melby
POSITIONS DETERMINED AND/OR VERIFIED	R. B. Melby
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	G. A. Morris
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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  <b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field                      P - Photogrammetric L - Located                    Vis - Visually V - Verified 1 - Triangulation            5 - Field identified 2 - Traverse                6 - Theodolite 3 - Intersection            7 - Planetable 4 - Resection               8 - Sextant  A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75  *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions** require</b> 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  <b>III. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75  <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> 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.

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	
<b>NONREPLACING AIDS OR LANDMARKS FOR CHARTS</b>					
<input type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input checked="" type="checkbox"/> TO BE DELETED	REPORTING UNIT <i>(Field Party, Ship or Office)</i> Photogrammetric Branch PMC, Seattle, WA	STATE Washington	LOCALITY Shilshole Bay to Sand Point	DATE 10/31/78	ORIGINATING ACTIVITY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH <i>(See reverse for responsible personnel)</i>
The following objects HAVE <input checked="" type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks.					

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	R. B. Melby
POSITIONS DETERMINED AND/OR VERIFIED	R. B. Melby
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	G. A. Morris
INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION: (Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>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.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> 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	<b>III. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

## FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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

USC DML DC 8558+P01