SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00648

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 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- 00468

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.

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.

Respectfully submitted:

Stephen H. Solbeck

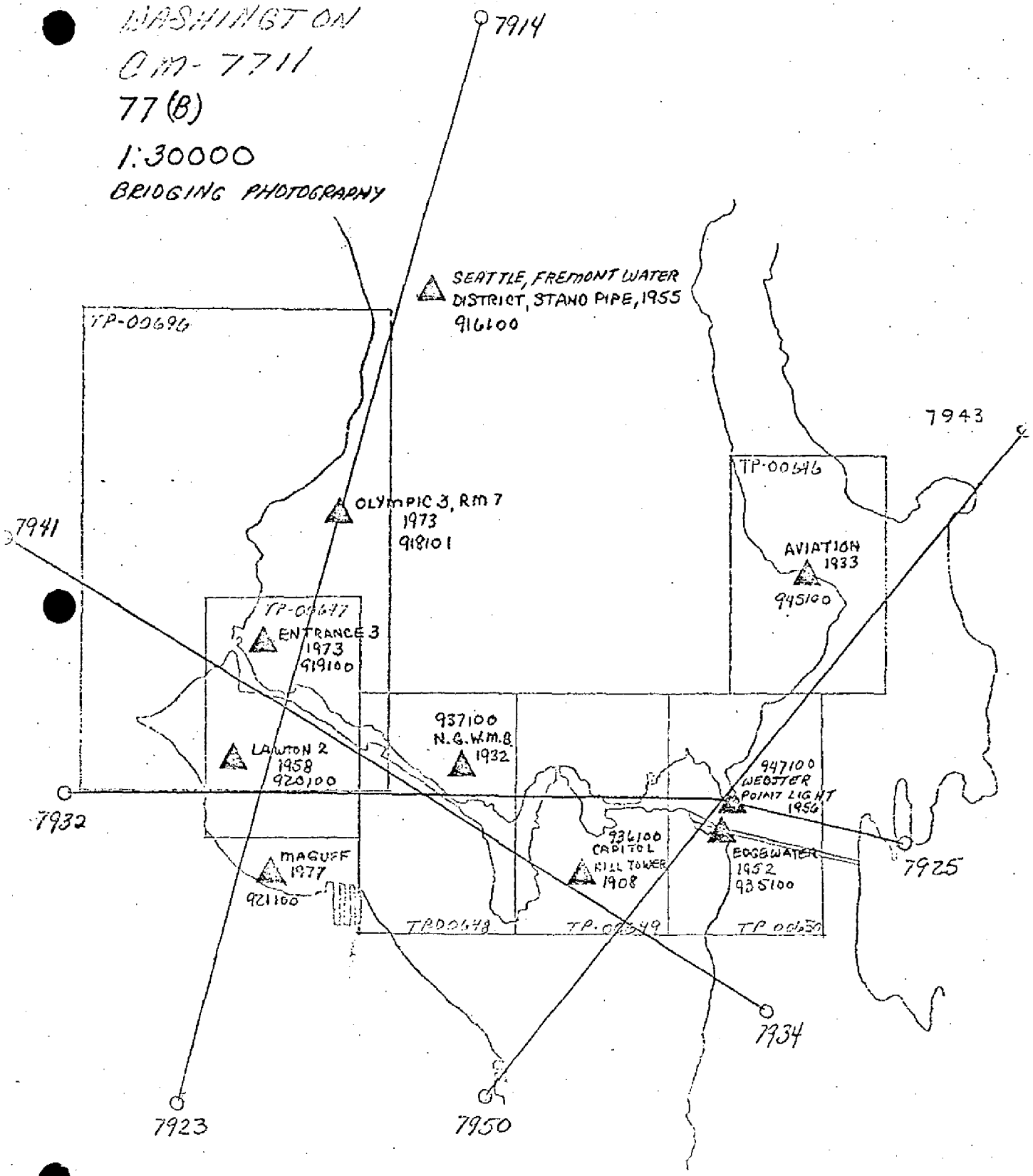
Approved and Forwarded:

John D. Perrow, Jr.
Chief, Aerotriangulation Section

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



SHILSHOLE BAY TO SAND POINT WASHINGTON

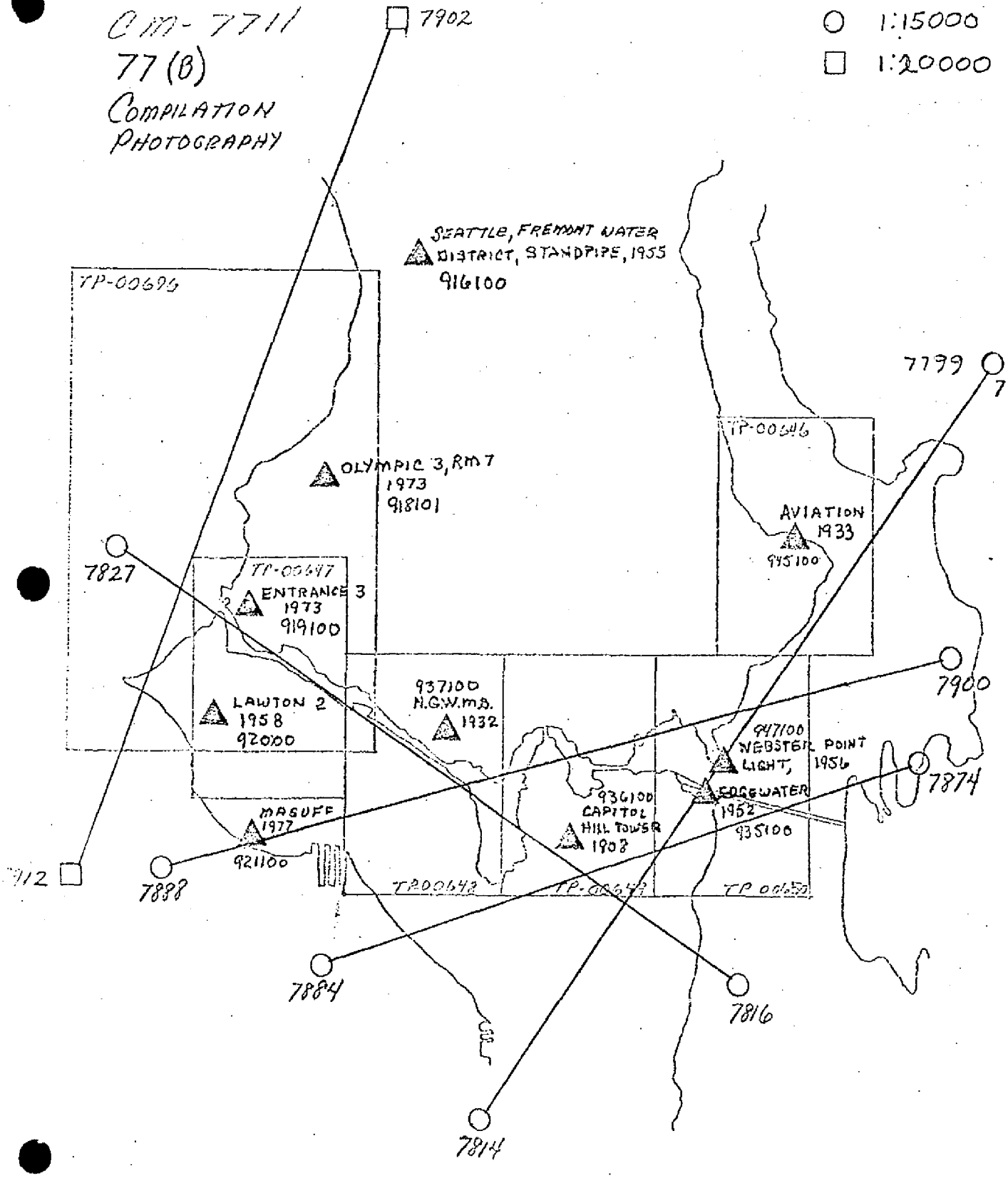
CM-7711

77 (B)

COMPILATION PHOTOGRAPHY

○ 1:15000

□ 1:20000



NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00648	CM-7711	North American 1927	Photogrammetric Branch, P.M.C.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Washington ZONE North	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
North George Washington Memorial Bridge, 1932	Washington King County	937100	x=	ϕ 47°39'10.271"	
			y=	λ 123°20'45.263"	
Seattle, TV Station KIRO, Tower, 1958	Washington King County	936144	x=	ϕ 47°37'59.468"	
			y=	λ 122°21'19.229"	
Seattle, TV Station KING, Tower, 1953	Washington King County	936110	x=	ϕ 47°37'55.310"	
			y=	λ 122°20'59.323"	
Seattle, TV Station KOMO, Tower, 1953	Washington King County		x=	ϕ 47°37'56.373"	
			y=	λ 122°21'09.813"	
Seattle Champion Bldg Prod Stk, 1977	Field Form 76-45		x=	ϕ 47°39'25.212"	
			y=	λ 122°22'26.910"	
Seattle, PSP&L N Tower, 1977	Field Form 76-45		x=	ϕ 47°39'12.490"	
			y=	λ 122°21'33.853"	
Seattle, PSP&L S Tower, 1977	Field Form 76-45		x=	ϕ 47°39'08.146"	
			y=	λ 122°21'33.880"	
Seattle, Lake Union Park, Stack, 1975	Field Form 76-45		x=	ϕ 47°38'41.987"	
			y=	λ 122°20'00.160"	
Seattle, U.S.N.R. Bldg. North Gable, 1975	Field Form 76-45		x=	ϕ 47°37'40.607"	
			y=	λ 122°20'07.341"	
			x=	ϕ	
			y=	λ	

COMPUTED BY	C. W. Goff	DATE 11/9/78	COMPUTATION CHECKED BY	J. R. Minton	DATE 11/9/78
LISTED BY	D. P. Butler	DATE 2/1/84	LISTING CHECKED BY		DATE
HAND PLOTTING BY	C. W. Goff	DATE 11/9/78	HAND PLOTTING CHECKED BY	J. R. Minton	DATE 11/9/78

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

12

DB

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00648	CM-7711	North American, 1927	Photogrammetric Branch, P.M.C.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Washington ZONE North	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
Seattle, Marina Mart, Bldg, Tower, 1975	Field Form 76-45		x=	φ 47°37'58.459"	
			y=	λ 122°20'20.638"	
Seattle, Darigold Stack 1976	Field Form		x=	φ 47°37'31.694"	
			y=	λ 122°21'59.418"	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			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	C. W. Goff	DATE	11/9/78	COMPUTATION CHECKED BY J. R. Minton	DATE 11/9/78
LISTED BY	D. P. Butler	DATE	2/1/78	LISTING CHECKED BY	DATE
HAND PLOTTING BY	C. W. Goff	DATE	11/9/78	HAND PLOTTING CHECKED BY J. R. Minton	DATE 11/9/78

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

13

COMPILATION REPORT
CM-7711
TP-00648

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 was adequate for compilation. Photo hydro-support data was not required for this map.

32. CONTROL

The placement, identification, and accuracy of the aerotriangulated 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 fifteen landmarks and one nonfloating aid to navigation within the mapping limits of this manuscript. Eleven of the landmarks were located photogrammetrically, one was not visible, and three were outside of the stereo-model limits. The aid was not visible.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Refer to the Compilation Sources, Form 76-36B, itme 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,

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7711 (Puget Sound, Washington)

TP-00648

Ballard Bridge (cultural)	Lake Union
Burlington Northern (RR)	Lake Washington Ship Canal
Fremont	Queen Anne
Fremont Bridge	Salmon Bay
George Washington Memorial Bridge (cultural)	Seattle

Approved by:

Charles E. Harrington

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 thier 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 theodlite 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^{o} 30' 00". It should read 122^{o} 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.

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

Lyle L. Riggers
Surveying Technician

Approved;

Robert B. Melby

Robert B. Melby
PMC Photo Party CPM 133

Field Edit Report

TP-ØØ648

CM-7711

April, 198Ø

This manuscript was reinspected on April 8 and 9, 1980 by Lt(Jg) David Actor from the NOAA ship Davidson and Richard Minton from the FMC Photogrammetric Branch. A number of new features are presented in the drawings 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 appropriate drawings. These features were plotted on the field edit ozalid and referenced to the appropriate drawing number.

Additional detail was photo identified on chronopaque ratio prints 77B(P)7820 thru 7822. These detail items were not transfered to the edit ozalid.

Four dolphins and one pile were shown as approximate positions because photo identification was not possible and sextant positioning was either weak or impossible.

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 violet ink on the edit ozalid and photographs. All deletions are noted in green ink on the edit ozalid.

One question concerning submerged piles near 47°39.3' by 122°21.9' could not be resolved without a diver investigation or wire drag operation. This item should be redirected to future hydrographic effort.

Submitted by;

James R. Minton

James R. Minton
Cartographic Technician
April 24, 1980

REVIEW REPORT
SHORELINE

TP-00648

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 10, 1985

Approved for forwarding,

Billy H. Barnes
Chief, Photogrammetric Section

Approved

Chief, Photogrammetric Section,
Rockville

Chief, Photogrammetry Branch,
Rockville

Originals to Charts 05/15/79

NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

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

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Photogrammetric Branch P.M.C., Seattle, WA	Washington	Shilshole Bay to Sand Point	May 1979

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
S-N303	CM-7711	TP-00648	North American 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	// D.M. Meters	POSITION LONGITUDE ° ′	// D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
TRAFFIC LIGHTS		47 38	50.71 1566	122 20	54.19 1131		V - Vis. 16 Aug. '75	18447
STACK	(Seattle Darigold Stack, 1976)	47 37	31.694	122 21	59.418		Triang. Rec. 31 Aug. '78	18449
BLDG	(Seattle, U.S.N.R. Bldg. North Gable, 1975)	47 37	40.607	122 20	07.341	77B(P)7821	F - 1 - 6 - L 15 July '78	18447

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	R. B. Melby	[X] PHOTO FIELD PARTY [ ] HYDROGRAPHIC PARTY [ ] GEODETIC PARTY [ ] OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	R. B. Melby	FIELD ACTIVITY REPRESENTATIVE
	C. W. Goff	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		[ ] REVIEWER [ ] QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

I. NEW POSITION DETERMINED OR VERIFIED
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.

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

II. TRIANGULATION STATION RECOVERED
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

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.

Original to Charts 05/15/79

NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- ☐ HYDROGRAPHIC PARTY
- ☐ GEODETIC PARTY
- ☐ PHOTO FIELD PARTY
- XX COMPILATION ACTIVITY
- ☐ FINAL REVIEWER
- ☐ QUALITY CONTROL & REVIEW GRP.
- ☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

- ☐ TO BE CHARTED
- ☐ TO BE REVISED
- ☒ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Photogrammetric Br. PMC, Seattle, WA	Washington	Shilshole Bay to Sand Point	11/09/78

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
S-N303	CM-7711	TP-00648	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 LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
TOWER	(North Power Tower, East Light, City Light, 1934) Light was removed	47 39.	2	122 21.	6		F-V-Vis. 08/15/78	18447
TOWER	(South Power Tower, East Light, City Light, 1934) Light was removed	47 39.	1	122 21.	6		F-V-Vis. 08/15/78	18447
STACK (TALLEST OF TWO)	Stack has been removed	47 39.	3	122 22.	3		F-V-Vis. 08/15/78	18447
TOWER	Removed	47 37.	6	122 20.	5		F-V-Vis. 08/15/78	18447
STACK	(Gas Works, Large Concrete Stack, 1915) Destroyed	47 38	43.67	122 20	05.26		F-V-Vis. 08/15/78	18447

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	R.B. Melby	[X] PHOTO FIELD PARTY [ ] HYDROGRAPHIC PARTY [ ] GEODETIC PARTY [ ] OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	R.B. Melby	FIELD ACTIVITY REPRESENTATIVE
	C.W. Goff	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		[ ] REVIEWER [ ] QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

I. NEW POSITION DETERMINED OR VERIFIED
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.

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

II. TRIANGULATION STATION RECOVERED
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

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.

Originals to Charts 05/15/79

NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [ ] TO BE CHARTED
- [X] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Photogrammetric Branch P.M.C., Seattle,	Washington	Shilshole Bay to Sand Point	Nov 1979

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
S-N303	CM-7711	TP-00648	North American 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
STACK	(Seattle, Lake Union Park, Stack, 1975)	47 38	41.987	122 20	00.160		Triang. Rec. 28 Aug. '78	18447

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	R. B. Melby	[X] PHOTO FIELD PARTY [ ] HYDROGRAPHIC PARTY [ ] GEODETIC PARTY [ ] OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	R. B. Melby	FIELD ACTIVITY REPRESENTATIVE
	C. W. Goff	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		[ ] REVIEWER [ ] QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

I. NEW POSITION DETERMINED OR VERIFIED

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.

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

II. TRIANGULATION STATION RECOVERED

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

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.

Originals to Charts 05/15/79

NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Photogrammetric Branch P.M.C., Seattle, WA
STATE: Washington
LOCALITY: Shilshole Bay to Sand Point
DATE: May 1979

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.: S-N303
JOB NUMBER: CM-7711
SURVEY NUMBER: TP-00648
DATUM: North American 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE °	′	″ D.M. Meters	POSITION LONGITUDE °	′	″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
STACK		47	39	31.63 977	122	22	04.60 96		F - V - Vis. 15 July '78	18447
STACK	(Seattle Champion Bldg. Prod Stk, 1977)	47	39	25.212	122	22	26.910		F - 1 - 6 - L 25 July '78	18447
TOWER	(Seattle PSP&LN Twr, 1977)	47	39	12.490	122	21	33.853		F - 1 - 6 - L 25 July '78	18447
TOWER	(Seattle PSP&LS Twr, 1977)	47	39	08.146	122	21	33.880		F - 1 - 6 - L 25 July '78	18447
TOWER		47	39	00.23 07	122	21	08.55 178	77B(P)7822	V - Vis. 16 Aug. '78	18447
TOWER		47	39	56.61 1748	122	21	12.62 263	77B(P)7822	V - Vis. 16 Aug. '78	18447
TV TOWER 1009 FT.	(Seattle, T.V. Station KIRO, Tower, 1958)	47	37	59.468			19.229		Triang. Rec. 16 Aug. '78	18447
BLDG TOWER	(Seattle, Marina Mart, Bldg, Tower, 1975)	47	37	58.459			20.638	77B(P)7821	Triang. Rec. 16 Aug. '78	18447
TV TOWER 1005 FT.	(Seattle, T.V. Station KOMO, Tower, 1953)	47	37	56.373			09.813		Triang. Rec. 16 Aug. '78	18447
TV TOWER 1006 FT.	(Seattle, T.V. Station KING, Tower, 1953)	47	37	55.310			59.323	77B(P)7821	Triang. Rec. 16 Aug. '78	18447

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	R. B. Melby	[X] PHOTO FIELD PARTY [ ] HYDROGRAPHIC PARTY [ ] GEODETIC PARTY [ ] OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	R. B. Melby	FIELD ACTIVITY REPRESENTATIVE
	C. W. Goff	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		[ ] REVIEWER [ ] QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

I. NEW POSITION DETERMINED OR VERIFIED
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.

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

II. TRIANGULATION STATION RECOVERED
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

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.

Original to Charts 05/15/79

NOAA FORM 76-40 (8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [ ] TO BE CHARTED
- [ ] TO BE REVISED
- [X] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Photogrammetric Br. PMC, Seattle, WA

STATE: Washington

LOCALITY: Shilshole Bay to Sand Point

DATE: Nov.1979

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
S-N303	CM-7711	TP-00648	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 LATITUDE ° ′	LATITUDE // D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE // D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
LIGHT	West Shore Lake Union (Private) Light was destroyed	47 38.6		122 20.5			F-V-Vis. 8/28/78	18447

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	R.B. Melby	☒ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	R.B. Melby	FIELD ACTIVITY REPRESENTATIVE
	C.W. Goff	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

I. NEW POSITION DETERMINED OR VERIFIED
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.

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

II. TRIANGULATION STATION RECOVERED
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

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.

☆U.S.GPO:1975-0-665-080/1155

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP- 00648

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 PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH- ____

MAP CLASS ____

SURVEY DATES: 19__ TO 19__

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 5, 1977	Supplement	October 3, 1977

II. DATUMS

1. HORIZONTAL: [XX] 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	ZONE
Washington	North

5. SCALE: 1:5,000

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	S. Solbeck	Dec 1977
	LANDMARKS AND AIDS BY	J. Perrow	Dec 1977
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	S. Solbeck	Dec 1977
	CHECKED BY	J. Perrow	Dec 1977
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:5,000	PLANIMETRY BY	J. Roderick	Feb 1978
	CHECKED BY	L. Neterer, Jr.	Feb 1978
	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION METHOD: Smooth drafted SCALE: 1:5,000	PLANIMETRY BY	J. Roderick	Mar 1978
	CHECKED BY	F. Margiotta	Apr 1978
	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
	HYDRO SUPPORT DATA BY	N.A.	
	CHECKED BY	N.A.	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	F. Margiotta	Apr 1978
6. APPLICATION OF FIELD EDIT DATA	BY	C. W. Goff	Apr 1980
	CHECKED BY	J. R. Minton	Apr 1980
7. COMPILATION SECTION REVIEW	BY	D. Butler	Jan 1984
8. FINAL REVIEW	BY	L. Neterer, Jr.	Apr 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	L. Neterer, Jr.	Apr 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 76-36A — SUPERSEDES FORM C&GS 181 SERIES

*U.S. GOVERNMENT PRINTING OFFICE-1977-765-092

NOAA FORM 76-36B
(3-72)

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

TP-00648

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC - 10"B" (Focal length= 152.74 mm)

TIDE STAGE REFERENCE
- [ ] PREDICTED TIDES
- [X] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR
- (P) PANCHROMATIC
- (I) INFRARED

TIME REFERENCE
- ZONE: Pacific — [X] STANDARD
- MERIDIAN: 120°W — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
77B(P)7891-7892	Aug 1,1977	14:53	1:15,000	Lake Washington chart datum +0.57 feet
77B(P)7821-7823	Aug 1,1977	14:30	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 shore line 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-00649	No survey	TP-00696 TP-00647

REMARKS

TP-00647 is a partial inset of TP-00696, scale 1:10,000

NOAA FORM 76-36B
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36C
(3-72)

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

TP-00648

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. Melby	Aug 1977
2. HORIZONTAL CONTROL	RECOVERED BY	R. Melby	Aug 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	R. Melby	Aug 1978
	LOCATED *(Field Methods)* BY	R. Melby	Aug 1978
	IDENTIFIED BY		
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. Melby	Aug 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 thru 7823

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS
Plot plan of new marina on south shore of Lake Union near G.W.M. Bridge
Plot plan of floats at Puget Sound Marina.

8. OTHER FIELD RECORDS *(Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division)*
Field edit report
One film ozalid with field notes
One field book of field positions

NOAA FORM 76-36C
(3-72)

☆U.S. Government Printing Office: 1975 – 665-661/1110, Region No. 6

NOAA FORM 76-36C
(3-72)

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

TP-00648

HISTORY OF FIELD OPERATIONS

I. [X] 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	Oct 1977
	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	None	
	LOCATED (*Field Methods*) BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION BY		
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
N.A

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
77B7937	North George Washington Memorial Bridge, 1932		

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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

1 Form 76-53, 2 Forms 155, 1 Form 76-67

NOAA FORM 76-36C
(3-72)

☆U.S. Government Printing Office: 1975 – 665-661/1110, Region No. 6

NOAA FORM 76-36C
(3-72)

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

TP-00648

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		David Actor	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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	J. R. Minton	Apr 1980
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

77B(P)7820 thru 7822

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. 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)*

One film field edit Ozalid
One field edit report with ten field drawings

☆ U.S. GPO: 1977-765-092/1105 Region 6

NOAA FORM 76-36D
(3-72)

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

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 compilaton complete	April 1980	Class I Manuscript	Aug. 29, 1985	
Final Review	April 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		May 15,1979	Landmarks to be Charted
1		May 15,1979	Landmark to be revised
2		May 15,1979	Landmark and aid 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:

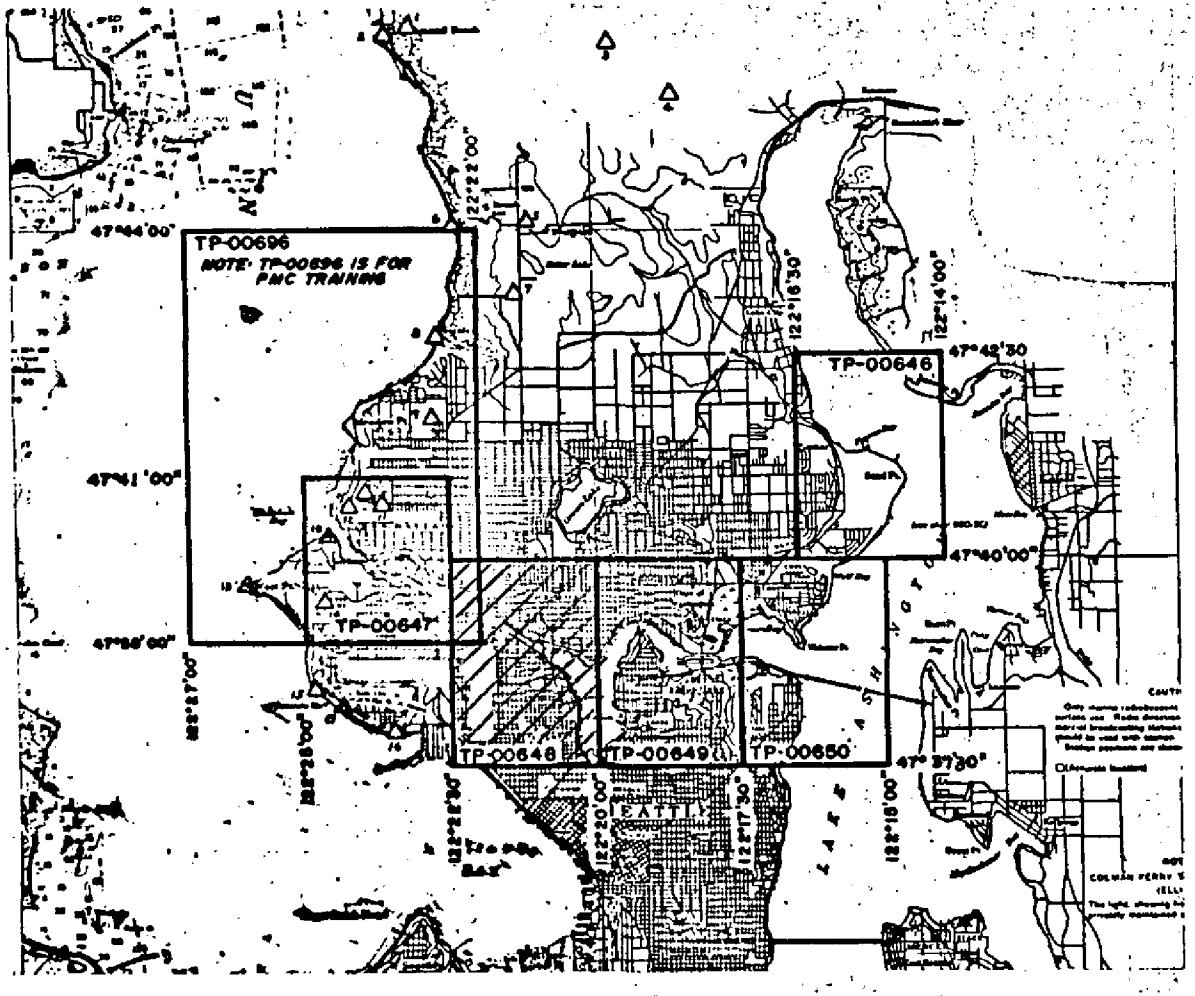
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL

NOAA FORM 76-36D

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092



CM-7711
SHILSHOLE BAY TO SAND PT.
WASHINGTON
SHORELINE MAPPING
SCALE 1:5,000 & 1:10,000

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

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ____________

INSTRUCTIONS

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

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Re

CHART	DATE	CARTOGRAPHER	REMARKS
18474	10/13/88	R.S. House	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 2
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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