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.

PHOTOGRAPMETRIC 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. The 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.

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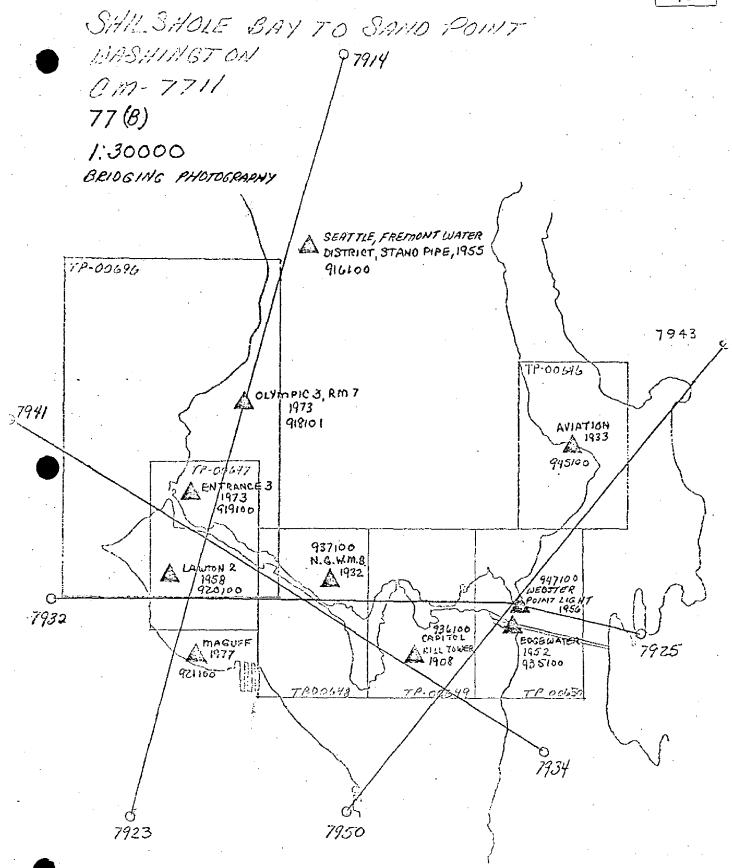
Approved and Forwarded:

John D. Perrow, Jr.

Chief, Aerotriangulation Section

ADEQUACY OF CONTROL CM-7711

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STRIP 3			
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STRIP 4			
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NOAA FORM 76-41					U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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LISTED BY D. P. Butler		^D 2/1/78	LISTING CHECKED BY		DATE
HAND PLOTTING BY W. GOFF		DATE 11/9/78	HAND PLOTTING CHECKED BY	R. Minton	DATE 11/9/78
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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 Cartographer

Approved,

||bert 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

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° 30' 00". It should read 122° 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 I Rigge

Lyle L. Riggers

Surveying Technician

Approved;

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)782Ø 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 $76-4\emptyset$ 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

Cartographic Technician

James R. Mintos

April 24, 198Ø

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			Ž	AT IONAL OC	EANIC AND	S. DEPARTA	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
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	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME	#E	ORIGINATOR
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OBJECTS INSPECTED FROM SEAWARD	R. B. Melby		GEODETIC PARTY
			OTHER (Specity)
F-X-1 10WS 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 O (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
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vations based entirely moon ground survey methods	dround survey methods		

NOAA FORM 78-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-665-080/1155

Original to Charts 05/15/79

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	TIONAL OCE	FOR CH	LOCALITY	Shilshole Sand Point	termine the		N.A. 1927	POSITION	rube	D.M. Meters					43.67				
	FAN	MARKS		-	ward to de	DATUM	:		LATITUDE	•	47 39.2	47 39.1	47 39.3	47 37.6	47 38				
M5/15//9		XXIC	. STATE	3r. Hachington	ins.	SURVEY NUMBER	TP-00648		_	or aid to navigation. applicable, in perentheses)	East Light, City was removed	East Light, City was removed			ete Stack, 1915)				
Uridinal to charts #5/15/79		NONIFILOATINGXADOX	REPORTING UNIT	Photogrammetric Br.	HAVE HAVE NOT		CM-7711	1	DESCRIPTION	Record reason for defetion of landmark or sid to navigation. Show triangulation station names, where applicable, in parentheses)	(North Power Tower, Eac Light, 1934) Light wa	(South Power Tower, Ea Light, 1934) Light wa	k has been removed	pə	(Gas Works, Large Concrete Destroyed				
) 	S Form 567.									(Nor Lig	(Sou Lig	Stack	Removed	(Gas Dest				4
	(8-74)	Replaces C&GS Form 567.	TO BE CHARTED	TO BE REVISED	The following	OPR PROJECT NO.	S-N303	2012	1	NAKE	TOWER	TOWER	STACK (TALLEST OF TWO)	TOWER	STACK				

	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	ZAXM		ORIGINATOR
			X PHOTO FIELD PARTY HYDROGRAPHIC PARTY
OBJECT V INSTECTED FROM JEANARD	R.B. Melby		GEODETIC PARTY
	7.00		OTHER (Specify)
E. ALLONA DETERMINAD AND JOB VERIFIED	R.B. Melby		FIELD ACTIVITY REPRESENTATIVE
	C.W. Goff	20000	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL			REVIEWER
AND REVIEW GROUP AND FINAL REVIEW			QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES			REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE O	METHOD AND DATE OF LOCATION	
	(Consult Photogrammet	(Consult Photogrammetric Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED OBJECTS	ATED OBJECTS	<pre>FIELD (Cont'd) B. Photogrammetric field</pre>	eld positions** require
Enter the number and date (including month, day, and year) of the photograph used to) (including month,	entry of method of date of field work	method of location or verification, field work and number of the photo-
identify and locate the bject. EXAMPLE: 75E(C)6042	bject.	graph used to locat EXAMPLE: P-8-V	ed to locate or identify the object. P-8-V
8-12-75		8-12-75 74: (c) 2982	
		/4[([] 29)	

I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: Field Located Vis - Visually P - Photogrammetric

Verified

Triangulation Field identified

Intersection

Traverse

Planetable Theodolite

Resection Sextant

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.

II. TRIANGULATION STATION RECOVERED angulation station is recovered, enter 'Triang. Rec.' with date of recovery. When a landmark or aid which is also a tri-**EXAMPLE:** Triang. Rec. 8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH **EXAMPLE:** Enter 'V+Vis.' and date. 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)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

Originals to Charts 05/15/79

TIVITY	RTY	Ł	ν.τ.ν	& REVIEW GRP.	ble personnel)		6 6	AFFECTED			18447									-		
ORIGINATING ACTIVITY	HYDROGRAPHIC PARTY	PHOTO FIELD PARTY	X COMPILATION ACTIVITY	OUALITY CONTROL & REVIEW GRP	(See reverse for responsible personnel)		E OF LOCATION		FIELD		Triang. Rec. 28 Aug. '78											
ENT OF COMMERCE	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION KS FOR CHARTS		DATE	Nov 1979			METHOD AND DATE OF LOCATION (See Instructions on reverse side)		OFFICE				•					,				
S. DEPARTM	ATMOSPHER			3	s landmarks.			CONSITION	,,,	D.P. Meters	00.160											
]	ARTS		יים טרט	Sand Point	ir value as		n 1927	- 1	,		122 20						٠					
	FOR CH		LOCALITY Chile	Sand Point	ermine the		American 1927			D.M. Meters	41.987											
	NARKS I			=	vard to det	DATUM	North	LATITUDE	•		47 38											
	NATIONAL OCEANIC MATIONAL OCEANIC MATIONAL OCEANIC MATERIAL OCEANIC MATERIAL CHARTS	Van/Vunavunavunavunavunavunavunavunavunavunav		branch wasnington	been inspected from seaward to determine their value as landmarks	SURVEY NUMBER	TP-00648		k or aid to navigation.	re applicable, in parentnesse,											-	
)			REPORTING UNIT	P.M.C., Seattle,	HAVE X HAVE NOT	JOB NUMBER	CM-7711		DESCRIPTION Record reason for deletion of landmark or aid to navigation.	onow intengulation station names, where applicable, in parentheses,	(Seattle, Lake Union Park, Stack, 1975)	,		•								
FORM 76-40	(8–74)	Replaces C&GS Form 567.	TO BE CHARTED	TO BE. DELETED	The following objects		S-N303		CHARTING Record		STACK Stack		, <u>.</u>				:			•		

	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME	ie.	ORIGINATOR
. :			X PHOTO FIELD PARTY
OBJECTS INSPECTED FROM SEAWARD	R. B. Melby		GEODETIC PARTY
			OTHER (Specify)
TOWN DETERMINED AND/OR VERIFIED	R. B. Melby	ı	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 (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED	ATED OBJECTS		d por i+ ione**
10 10 7 14	(including month, tograph used to bject.	entry of method of date of field work graph used to locat EXAMPLE: P-8-V	entry of method of location or verification, date of field work and number of the photo- graph used to locate or identify the object. EXAMPLE: P-8-V
FIELD		/45(0)2982	
EW POSITION DETERMI nter the applicable - Field - Located	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually	ATI and th	ON STATION RECOVERED mark or aid which is also a tri-station is recovered, enter 'Triang. date of recovery.
1 1	Field identified Theodolite	EXAMPLE: Triang. Rec. 8-12-75	
tion 7 - n 8 -	Planetable Sextant	<u></u>	UALLY ON PHOTOGRAPH
sitions*	require entry of method of of field work.	EXAMPLE: V-Vis. 8-12-75	
EXAMPLE: +-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD PO	IC FIELD POSITIONS are dependent
<pre>*F!ELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.</pre>	are determined by field obser- ntirely upon ground survey methods.		ds.

NOAA FORM 78-40 (8-74)

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SUPERSEDES NOAA FORM 75-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

05/15/79
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Charts
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nals
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IVITY ry	TY REVIEW GRP.	H 9 personnel)		-	CHARTS	AFFECTED		18447	18447	18447	18447	18447	18447	18447	18447	18447	18447
ORIGINATING ACTIVITY HYDROGRAPHIC PARTY GEODETIC PARTY	MOTO FIELD PARTY COMPILATION ACTIVITY FINAL REVIEWER QUALITY CONTROL & REVIEW GRP	COAST PILOT BRANCH (See reverse for responsible personnel)		E OF LOCATION		•	- - - - -	F - V - Vis. 15 July '78	F - 1 - 6 - L 25 July '78	F - 1 - 6 - L 7 25 July '78	F - 1 - 6 - L 25 July '78	V - Vis. 16 Aug. '78	V - Vis. 16 Aug. '78	Triang. Rec. 16 Aug. '78	Triang. Rec. 16 Aug. '78	Triang. Rec. 16 Aug. '78	Triang. Rec. 1
U.S. DEPARTMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION	рате Мау 1979			METHOD AND DATE OF LOCATION	(see instructions on reverse side)	u ()	2					77B(P)7822	77B(P)7822		77B(P)7821		77R(P)7R21
J.S. DEPARTA	ıy tö	seaward to determine their value as landmarks.				LONGITUDE	D.P. Meters	04.60	26.910	33.853	33.880	08.55 178	12,62 263	19.229	20.638	09.813	59.323
OCEANIC AND	nole Bay	olnt ir value a		1927	- 1	LONG	•	122.22	122 22	12 221	122 21	12 221	122 21				
NATIONAL OCE	Shilshole	ermine their value		American 1927	POSITION		D.M. Meters	31.63	25.212	12.490	08.146	00.23 07	56.61 1748	59.468	58.459	56.373	55.310
ARKS F		rd to der	DATUM	North A		LATITUDE	/	39	39	39	39	39	39	37	37	37	37.
NATIONAL OCEANIC , NATIONAL OCEA	state inch Washington	en inspected from seawa	E.	TP-00648		1	plicable, in perentheses)	47	Prod 47	7) 47	(1	47	47	KIRO, 47	Bldg, 47	JMO, 47	NG,
MANAMENCATIN	9, 7	HAVE X HAVE NOT bee	1	CM-7711		DESCRIPTION	recont reason for detector of amountain of aid to navigation. Show triangulation station names, where applicable, in perentheses)		(Seattle Champion Bldg. P Stk, 1977)	(Seattle PSP&LN Twr, 1977)	tle PSP&LS Twr, 1977)			(Seattle, T.V. Station KI Tower, 1958)	(Seattle, Marina Mart, Bl Tower, 1975)	(Seattle, T.V. Station KOMO, Tower, 1953)	(Seattle, T.V. Station KING,
5-40 Form 567.	1	ects			-	1 1 1	Show tria		(Seat Stk,	(Seat	(Seattle		1		(Seat Tower		
NOAA FORM 76-40 (8-74) Replaces C&GS Form 567	X TO BE CHARTED TO BE REVISED TO BE DELETED	The following objects	OPR PROJECT NO.	S-N303		CHARTING	NAME	STACK	STACK	TOWER	TOWER	TOWER	TOWER	TV TOWER 1009 FT.	BLDG TOWER	TV TOWER 1005 FT.	TV TOWER 1006 FT.



WARD R VERIFIED Y CONTROL REVIEW Of the pho	Photogrammetri	IETHOD AND DATE OF LOCATION' Constructions No. 64. FIELD (Cont'd) B. Photogrammetric field work date of field work drank used to locate	DRIGINATOR ORIGINATOR ORIGINATOR ORIGINATOR ORIGINATOR ORIGINATOR PHOTO FIELD PARTY GEODETIC PARTY GEODETIC PARTY OFFICE ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE OREVIEWER ONS No. 64. Cont'd) Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photo- date of field work and number of the photo-
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
	NSTRUCTIONS FOR ENTRIES UNDER "M (Consult Photogrammetri	LETHOD AND DATE OF LOCATION' c Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED 0 1. OFFICE IDENTIFIED AND LOCATED 0 Enter the number and date (inc) day, and year) of the photograp identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75		FIELD (Cont'd) B. Photogrammetric field entry of method of lo date of field work an graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	<pre>mmmetric field positions** require method of location or verification, field work and number of the photo- sed to locate or identify the object. P-8-V 8-12-75 74L(C)2982</pre>
DETERMINED plicable dat P - Vis	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	ION STATION RECOVERED Imark or aid which is also a tri-station is recovered, enter 'Triang. date of recovery. [riang. Rec.] 3-12-75
.γ *	Theodolite Planetable Sextant ire entry of method of	III. POSITION VERIFIED VISUAL Enter 'V+Vis.' and date. EXAMPLE: V-Vis. 8-12-75	VERIFIED VISUALLY ON PHOTOGRAPH Vis.' and date. V-Vis. 8-12-75
Field positions*	require entry of method of		

NOAA FORM 76-40 (8-74)

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

location and date of field work. EXAMPLE: F-2-6-L 8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

ጵያ ሀ. 8.GPO:1975-0-665-080/1155

Original to Charts 05/15/79

	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME	AE.	ORIGINATOR
	-		X PHOTO FIELD PARTY
OBJECTS INSPECTED FROM SEAWARD			HYDROGRAPHIC PARTY
	R.B. Melby		GEODETIC PARTY OTHER (Specify)
	R.B. Melby		FIELD ACTIVITY REPRESENTATIVE
COLLIONS OF EXMINED AND/OR VENIFIED	C.W. Goff		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW			QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES			REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE O (Consult Photogrammetric Instructions No. 64)	OR ENTRIES UNDER METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED OBJECTS	ATED OBJECTS	FIELD (Cont'd) 8. Photogrammetric fie	field positions** require
Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75	d date (including month, he photograph used to the ∴bject. 2	entry of method of 1c date of field work an graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols F - Field P - Photogrammet	NED OR VERIFIED data by symbols as follows: P - Photogrammetric	<u>~</u> —	RECOVERED d which is also a tri- recovered, enter 'Triang.
vis ation 5 -	- Visually Field Identified	date of Triang. R 8-12-75	overy.
# I S	Ineogolice Planetable Sextant	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH	UALLY ON PHOTOGRAPH
tions* nd date	require entry of method of of field work.	EXAMPLE: V-Vis. 8-12-75	
EXAMPLE: F-2-6-L 8-12-75			IC FIELD POSITIONS are dependent
*FIELD POSITIONS are determined by field obser-	ed by field obser-	by photogrammetric methods.	ds.

NOAA FORM 78-40 (8-74)

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

SUPERSEDES NOAA FORM 76-40 (2-7)) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆·U.S.GPO:1975-0-665-080/1155

NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 00648
	TO THE NEW PRINCE NOW IN.	⊠ ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REI	PORT - DATA RECORD	RESURVEY	MAP CLASS Final
		REVISED	јов жн - <u>СМ−7711</u>
PHOTOGRAMMETRIC OFFICE		LAST PRECEEDS	ING MAP EDITION
Coastal Mapping Divi	sion	TYPE OF SURVEY	JOB PH-
AMC, Norfolk, Virgin OFFICER-IN-CHARGE	ia	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE		A ESURVEY	SURVEY DATES:
Jeffrey G. Carlen		REVISED	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)	•
	MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	MEAN LOW-WATER	i -	art datum (Low Water
Z. VERIJOAC.	MEAN LOWER LOW-WATER	of the Lake is Sea	ttle MLLW plus
3. MAP PROJECTION	MEAN SEA LEVEC	20.00 feet.)	DID (D)
		STATE 4. C	GRID(S)
Lambert Conformal Con	nic	Washington	North
5. SCALE		STATE	ZONE
1:5,000		<u> </u>	<u> </u>
III. HISTORY OF OFFICE OPER			
I, AEROTRIANGULATION	RATIONS	S. Solbeck	Dec 1977
METHOD: Analytic	LANDMARKS AND AIDS BY	J. Perrow	Dec 1977
2. CONTROL AND BRIDGE POIN	ITS PLOTTED BY	S. Solbeck	Dec 1977
метнор: Coradomat	CHECKED BY	J. Perrow	Dec 1977
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	J. Roderick	Feb 1978
COMPILATION	CHECKED BY	L. Neterer, Jr.	Feb 1978
INSTRUMENT: Wild B-8 scale: 1:5.000	CONTOURS BY CHECKED BY	N.A.	
scale: 1:5,000 4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J. Roderick	Mar 1978
_	CHECKED BY	F. Margiotta	Apr 1978
метнор: Smooth dra:	CONTOURS BY	N.A.	
метноо: Smooth dra:	CHECKED BY	N.A.	
scale: 1:5,000	HYDRO SUPPORT DATA BY	N.A.	
	CHECKED BY	N.A.	3070
5. OFFICE INSPECTION PRIOR	TO FIELD EDIT BY	F. Margiotta C. W. Goff	Apr 1978 Apr 1980
6. APPLICATION OF FIELD ED	T DATA CHECKED BY	J. R. Minton	Apr 1980 Apr 1980
7. COMPILATION SECTION REV	IEW BY	D. Butler	Jan 1984
8. FINAL REVIEW	ВҮ	L. Neterer, Jr.	Apr 1985_
9. DATA FORWARDED TO PHOT		L. Neterer, Jr.	Apr 1915
10. DATA EXAMINED IN PHOTOG 11, MAP REGISTERED - COASTAI		P. DEMPSEY E DAUGHERTY	Aug. 1985
	BY }	- UNICOTTEF!	LDET 1713

4. CONTEMPORARY	HYDROGRA	PHIC SUI	RVEYS (List only those of	surveys that are sources	for photogra	mmetric	survey information.)
SURVEY NUMBER	DATE(S)		SURVEY COPY USED	SURVEY NUMBER	DATE(S)		SURVEY COPY USED
5. FINAL JUNCTION	is		<u> </u>	<u> </u>			
NORTH		EAST		SOUTH		WEST	P-00696
No survey		TP-	00649	No survey	Y	1	rp-00647
REMARKS				<u> </u>			

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

10AA FORM 76-36C 3-72)	TP-00648 History of Field		U, S. DEPARTMENT OF COMMERC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVE					
I. THELD INSPECTION (. THELD INSPECTION OPERATION THE FIELD EDIT OPERATION							
	OPERATION	NAM	E DATE					
. CHIEF OF FIELD PARTY	,							
		R. Melby	Aug 1977					
. HORIZONTAL CONTROL	RECOVERED BY	R. Melby	Aug 1978					
. HORIZONIAL CONTROL	ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None						
· · · · · · · · · · · · · · · · · · ·	RECOVERED BY	None						
, VERTICAL CONTROL	ESTABLIŞHED BY	None						
•	PRE-MARKED OR IDENTIFIED BY	None						
	RECOVERED (Triangulation Stations) BY	R. Melby	Aug 1978					
LANDMARKS AND	LOCATED (Field Methods) BY	R. Melby	Aug 1978					
AIDS TO NAVIGATION	IDENTIFIED BY							
	TYPE OF INVESTIGATION							
GEOGRAPHIC NAMES	COMPLETE BY							
INVESTIGATION	SPECIFIC NAMES ONLY							
	NO INVESTIGATION							
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. Melby	Aug 1978					
BOUNDARIES AND LIMIT	S SURVEYED OR IDENTIFIED BY	<u> </u>						
. source data . Horizontal control None	IDENTIFIED	None	DL IDENTIFIED					
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION					
. PHOTO NUMBERS (Clarit	•							
77B(P)7819 thru	7823							
None	TO NAVIGATION IDENTIFIED							
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME					
S. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AND L						
Plot plan of flo	n marina on south shore of Loats at Puget Sound Marina. (Sketch books, etc. DO NO T list data submi		-					
Field edit repor One film ozalid		ned to the Geogesy Divisi	on,					

NOAA FORM 76-360 3-72)		TD 00040	NATIONAL OCEA	NIC AND ATMOSPHER	ENT OF COMMER IC ADMINISTRATI IAL OCEAN SURV			
		TP-00648 HISTORY OF FIELD	OPERATIONS					
. X FIELD INSP	ECTION OPE	RATION(Premarking) 🗀 FIEL	DEDIT OPERATION					
	O F	PERATION	N	NAME	DATE			
. CHIEF OF FIEL	DPARTY		D Molby		06+ 1077			
	<u> </u>	RECOVERED BY	R. Melby R. Melby		0ct 1977 Oct 1977			
. HORIZONTAL C	CONTROL	ESTABLISHED BY	None		1000 1377			
		PRE-MARKED OR IDENTIFIED BY	L. Riggers		Oct 1977			
		RECOVERED BY	None					
. VERTICAL CON	ITROL	ESTABLISHED BY	None					
		PRE-MARKED OR IDENTIFIED BY	None	<u></u>				
		ECOVERED (Triangulation Stations) BY	None	····				
. LANDMARKS AI AIDS TO NAVIG		LOCATED (Field Methods) BY	None		<u> </u>			
		TYPE OF INVESTIGATION	None		<u> </u>			
. GEOGRAPHIC N	JAMES	COMPLETE						
INVESTIGATION		SPECIFIC NAMES ONLY						
		NO INVESTIGATION						
. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None					
. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.					
. SOURCE DATA								
. HORIZONTAL C	CONTROL ID	ENTIFIED and paneled	1	ITROL IDENTIFIED				
			N.A					
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DE	SIGNA TIÓN			
77B7937		eorge Washington 1 Bridge, 1932						
3. PHOTO NUMBERS (Clarification of details)								
None								
	ND AIDS TO	NAVIGATION IDENTIFIED						
None								
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME			
S. GEOGRAPHIC	NAMES:	REPORT () NONE	6. BOUNDARY AN	D LIMITS: REPO	RT X NONE			
None	L MAPS AND				·····			
. OTHER FIELD	RECORDS (S	ketch books, etc. DO NOT list data submit	ted to the Geodesy Di	ivision)				
1 Form 76	-53, 2 F	orms 155, 1 Form 76-67						

NDAA FORM 76-360 (3-72)			NATIONAL OCEA	NIG AND ATMOSPHERIC		
		ТР-00648		NATIONA	AL OCEAN SURVEY	
		HISTORY OF FIELD	OPERATIONS			
I. TIELD INSPE	ECTION OPER	ATION XX FIEL	D EDIT OPERATION			
	ОР	ERATION		NAME	DATE	
1. CHIEF OF FIEL	D PARTY		David Actor	<u> </u>	Apr 1980	
		RECOVERED BY		<u> </u>	<u> </u>	
2. HORIZONTAL C	ONTROL	ESTABLISHED BY			 	
 .	_ ,	PRE-MARKED OR IDENTIFIED BY	<u> </u>		ļ	
		RECOVERED BY			ļ <u>. </u>	
3. VERTICAL CON	TROL	ESTABLISHED BY			<u> </u>	
		PRE-MARKED OR (DENTIFIED BY	ļ <u>. </u>		 	
		COVERED (Triangulation Stations) BY			 	
4. LANDMARKS AN AIDS TO NAVIG		LOCATED (Field Methods) BY			 	
		TYPE OF INVESTIGATION			 	
E GEOCRADUIC N	AMEC	COMPLETE				
5. GEOGRAPHIC NAMES INVESTIGATION		SPECIFIC NAMES ONLY				
		NO INVESTIGATION				
		CLARIFICATION OF DETAILS BY	J. R. Minton	Apr 1980		
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY				<u> </u>		
II. SOURCE DATA						
1. HORIZONTAL C	ONTROL IDE	NTIFLED	2. VERTICAL CONTROL IDENTIFIED			
PHOTO NUMBER		tration was	PHOTO NUMBER	STATION DES	LCN A TION	
PHO TO NOMBER		STATION NAME	PHOTO NOMBER	STATION DES	IGNATION	
			1			
			1			
			<u> </u>			
3. PHOTO NUMBER	RS (Clarificati	on of details)				
77B (P) 7820	thru 78	22				
4. LANDMARKS AN	ID AIDS TO N	AVIGATION IDENTIFIED				
None						
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT!	NAME	
]			

7. SUPPLEMENTAL MAPS AND PLANS

One field edit report with ten field drawings

REPORT

XXNONE

6. BOUNDARY AND LIMITS:

5. GEOGRAPHIC NAMES:

XX NONE

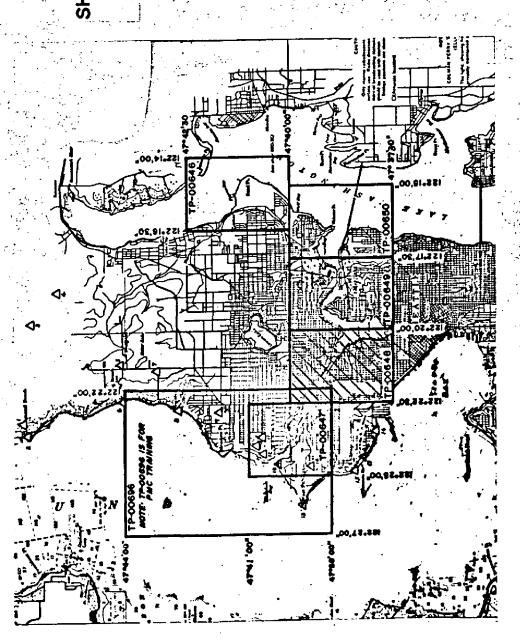
REPORT

NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

I. MANUSCI	I. MANUSCRIPT COPIES						
II mearage		MPILATION STAGE	s		DATE	MANUSCRI	PT FORWARDED
	ATA COMPILED	DATE	RE	MARKS	MARINE	CHARTS	HYDRO SUPPORT
Compila	tion complete						
-	field edit	April 1978	Class III	Manuscri	pt		
1978 fi	eld edit applied tion complete	Nov. 1978	Class I Ma		mas 1	5,1979	
	eld edit applied ton complete	April 1980	Class I Ma	ınuscript	Dug.29	, 1985	
Final R	eview	April 1985	Final Map			<u></u>	
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH							
NUMBER (Pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMARKS		
2		May 15,1979	' Landmarks	dmarks to be Charted			
1		May 15,1979	Landmark	rk to be revised			
2 May 15,1979 Landmark and aid to be delet			ed				
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·		_		" <u>-</u>			
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:							
1. X 1 2. X 6 3. X 5	AL RECORDS CENTER DATE BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTIFY SOURCE DATA (except for Gaccount for exception DATA TO FEDERAL RECOR	DUPLICATE FICATION CARDS; eographic Names Resis: RDS CENTER, DAT	X FORM NO.	S 567 SUBMI	TTED BY FIELD I, NOAA FORM 76	PARTIES.	
IV. SURVE	Y EDITIONS (This section s	hall be completed ea		edition is re	-	SURVEY	
SECOND					REVISED		URVEY
EDITION	DATE OF PHOTOGRAPH	Y DATE OF FI	ELD EDIT	□n.	MAP (CLASS	FINAL
	SURVEY NUMBER	JOB NUMBER			_	SURVEY	
THIRD EDITION	DATE OF PHOTOGRAPH	(3) PH-		□ 111.	REVISED MAP (CLASS	ORVEY
SOURCE:	SURVEY NUMBER	JOB NUMBER				SURVEY	
FOURTH - EDITION	TP	(4) PH	ELD EDIT	□ 11.		CLASS	

SHILSHOLE BAY TO SAND PT.
WASHINGTON
SCALE 15000 B 110,000



REVISED 8-30-77 KW.

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 Rev

CHART	DATE	CARTOGRAPHER	REMARKS
18474	10/13/86	A.S. House	Full-Pare Before After Verification Review Inspection Signed Vi
			Drawing No. 2_
			Euli Dan Batan Ata W. C
		. <u>.</u>	Full Part Before After Verification Review Inspection Signed Vi- Drawing No.
			Full Part Before After Verification Review Inspection Signed Vi-
			Drawing No.
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