NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline
Job NoCM-7311 Map No. TP-00728
Classification No. Final Edition No
Field Edited Map
LOCALITY
State Washington
General Locality Tacoma Harbor
Locality Point Defiance
1973 TO 1974
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

RCS /8413-9-30-81 RL

RCS /8445-B SC 9-30-81 RL

RCS /8445-B SC 9-30-81-RL

			1
NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY	rp. <u>00728</u>
	Ø ORIGINAL	MAP EDITIO	on no. (1) 🧦
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS	Final
	REVISED	K BOL	<u> CM-7311</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDIT	ION
Coastal Mapping Division	TYPE OF SURVEY		PH
Atlantic Marine Center, Norfolk, VA	D ORIGINAL	_	i
OFFICER-IN-CHARGE	RESURVEY	SURVEY D	
T 00 C C C C C C C C C C C C C C C C C C	REVISED	19TO 19	•
Jeffrey G. Carlen, Cdr., NOAA	<u> </u>		
I. INSTRUCTIONS DATED		F1F1 -	
1. OFFICE	<u> </u>	FIELD	<u> </u>
Aerotriangulation Aug 30, 1973 Compilation Jan 22, 1974	May 17,	1973	
II. DATUMS	OTHER (Specify)		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTTIEN (Opeciny)		
MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specity)		
3. MAP PROJECTION	4.	GRID(S)	
	STATE	ZONE	
Polyconic	Washington	So	uth
1:5,000	STATE	ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS	NAME		DATE
t. AEROTRIANGULATION BY	I, O, Raborn		1/74
METHOD: Analytic Landmarks and alos by	<u> </u>		- /
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: CALCOMP CHECKED BY	R. Robertson		1/74
	D D Intl	<u> </u>	2/74
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	R. R. White L. O. Neterer		2/74
INSTRUMENT: Wild B-8 CONTOURS BY	NA		27.14
SCALE: 1:7,500 CHECKED BY	NA NA		
4. MANUSCRIPT DELINEATION PLANIMETRY BY	F. R. Gustafs	on	3/74
CHECKED BY	R. R. White		3/74
метнор: Smooth Draft contours by	NA		
CHECKED BY	N.A.		ļ
scale: 1:5,000 HYDRO SUPPORT DATA BY	F. R. Gustafs	on	3/74
CHECKED BY	R. R. White		3/74
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R. R. White		3/74
6. APPLICATION OF FIELD EDIT DATA	J. R. Minton		3/75
7. COMPILATION SECTION REVIEW BY	A. I. Shands		5/75 5/75
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	A. L. Shands A. L. Shands	<u> </u>	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	1. L. Shands		Jan 1978 — May 1978
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	J. B. Phillip	2.5	March 1918
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	R.T. Cator		MAY 1978

SUPERSEDES FORM C&GS 181 SERIES

NOAA FORM 76-36 A

NOAA FORM 76-368 (3-72)			NATION	AL OCEANIC AND	. S. DEPART	MENT OF COMMERCE
	COV	TP-00	728 N SOURCES			DNAL OCEAN SURVEY
1. COMPILATION PHOTOGRAPHY						
CAMERA(S) Wild RC-8 "E"		TYPE	S OF PHOTOGI	RAPHY	TIME B	EFERENCE
TIDE STAGE REFERENCE	·		LEGEND	ZON		
T PREDICTED TIDES		(C) CO	LOR NCHROMATIC		Pacific	X STANDARD
REFERENCE STATION RECORDS			RARED	MER	120th	DAYLIGHT
NUMBER AND TYPE	DATE	TIM	s s	CALE		E OF TIDE
73E(C) 9122 and 9123 73E(C) 9097 and 9098	6/22/73 6/22/73	10:1 09:5		5,000 5,000		above MLLW above MLLW
2. SOURCE OF MEAN HIGH-WATER The mean high water li		neated f	rom the a	bove listed	photogr	aphy.
3. SOURCE OF MEAN LOW-WATER O	DR MEAN LOWER LO	OW-WATER	LINE:			
None compiled.						!
4. CONTEMPORARY HYDROGRAPHI	C SURVEYS (List o	only those s	urveys that are	sources for photogr	emmetric sur	vey information.)
SURVEY NUMBER DATE(S)	SURVEY COP	Y USED	SURVEY NUM	BER DATE(S)	SI	JRVEY COPY USED
5. FINAL JUNCTIONS			 -			
NORTH E	AST		SOUTH		WEST	
No Survey	TP-00730)	No S	Survey	N	o Survey
пентина						

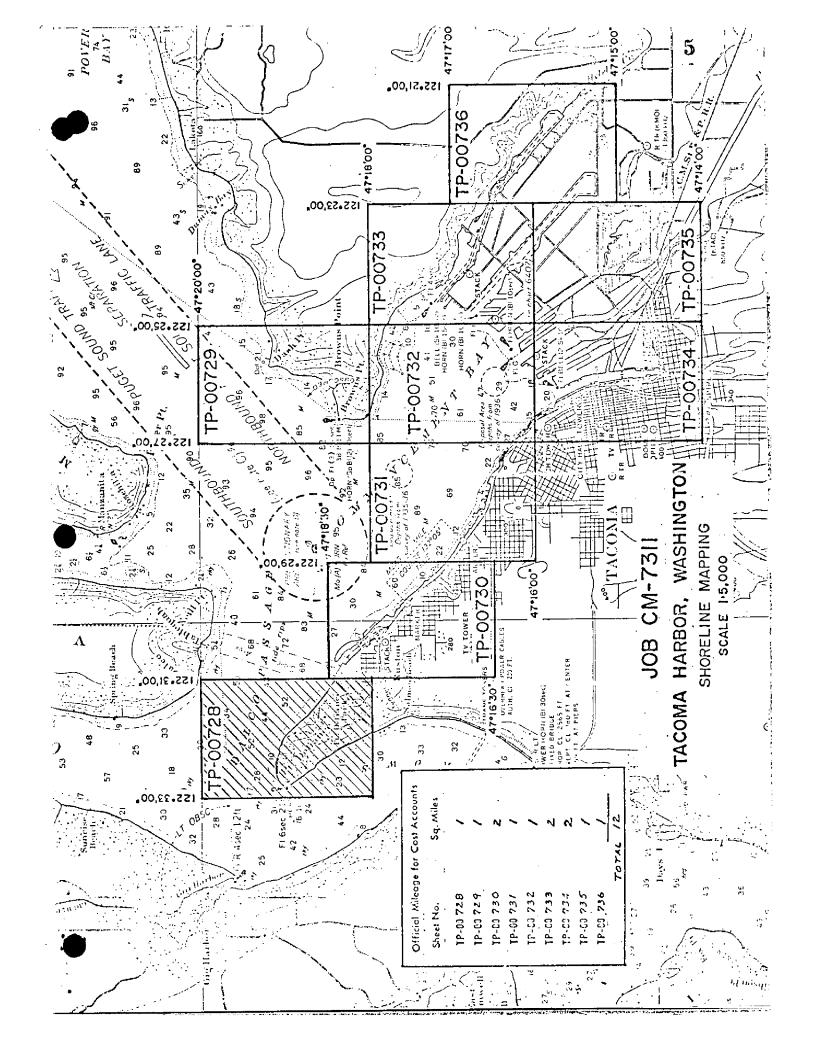
10AA FORM 76-36 0 3 - 72)	C	TP-0072 History of Field	8.	INIC AND ATMOSPHERIC	ENT OF COMMERS C ADMINISTRATION AL OCEAN SURVI
I. 🗓 FIELD INSP	ECTION OPER		D EDIT OPERATION		
	OPE	RATION	T	NAME	DATE
I, CHIEF OF FIEL	D PARTY				()==
	- PRICIT			Melby	6/73
		RECOVERED BY		Melby	6/13
. HORIZONTAL C	CONTROL	ESTABLISHED BY	None	W.71	4/02
		PRE-MARKED OR IDENTIFIED BY		Melby	6/73
VERTICAL COL	ITDA	RECOVERED BY	NA NA		
. VERTICAL CON	NIROL	ESTABLISHED BY	NA NA		+
		PRE-MARKED OR IDENTIFIED BY	NA Na		
LANGHARKS		COVERED (Triangulation Stations) BY	None None		
LANDMARKS AN AIDS TO NAVIG		LOCATED (Field Methods) BY	None		
		TYPE OF INVESTIGATION	None_		
		COMPLETE			
GEOGRAPHIC N INVESTIGATION		SPECIFIC NAMES ONLY			
		NO INVESTIGATION	İ		
					
PHOTO INSPEC		CLARIFICATION OF DETAILS BY	None		-
BOUNDARIES A SOURCE DATA		SURVEYED OR IDENTIFIED BY	LNA		
HORIZONTAL C		ITIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
PHOTO NUMBER		ST A TION NAME	PHOTO NUMBER	STATION DES	IIGNATION
73E(C)9122	ENTRANC	E 2, 1958			
. PHOTO NUMBE	R\$ (Clarification	on of details)			<u> </u>
None					
. LANDMARKS AI	ND AIDS TO NA	AVIGATION IDENTIFIED	-		
None		·			
HOTO NUMBER	····	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
				·	
5. GEOGRAPHIC N	IAMES: [REPORT T NONE	6. BOUNDARY AN	ID LIMITS: REPO	RT [Y] NONE
, SUPPLEMENTA			<u> </u>		
None					
OTHER FIELD	RECORDS (Ske	tch books, etc. DO NOT list data submit	ted to the Geodesy D	Division)	
1 Form 15		1 Form 6135 (Telluron		•	
11 Form 94		. Ioim Oiyy (Idilurol	COOT OPPGIAN	010119)	
1 Form 29.		•			
2 Form 26	¹s				

NOAA FÖRM 76-36C (3-72)		HISTORY	TP-00728		NIG AND ATMOSPHER	MENT OF COMMERC IC ADMINISTRATIO YAL OCEAN SURVE
I. TIELD INSPEC	TION OPER	ATION	X FIELD	EDIT OPERATION	<u> </u>	
	OPE	RATION			NAME	DATE
1. CHIEF OF FIELD	PARTY				•	0 /2 / /2
		DEC.	VERED BY	M. Fle	ming	3/74 - 4/74
2. HORIZONTAL CO	NTROL		SLISHED BY	None		
21 HOMEON AC CO.		PRE-MARKED OR IDEN		None		
<u> </u>			VERED BY	NA NA		-
NERTICAL CONT	ROL	ESTAE	SLISHED BY	NA NA		
		PRE-MARKED OR IDEN	NTIFIED BY	NA	· · · · · · · · · · · · · · · · · · ·	
	RF	COVERED (Triangulation .	Stations) BY	None		
4. LANDMARKS AND		LOCATED (Field)	•	None		
AIDS TO NAVIGAT	TION ,	* *	TIFIED BY	None		
		TYPE OF INVESTIG	ATION			
5. GEOGRAPHIC NAI	MES	COMPLETE	ВҮ			
INVESTIGATION		SPECIFIC NAME	ES ONLY			
		NO INVESTIGA	TION			
6. PHOTO INSPECTI	ON	CLARIFICATION OF E	ETAILS BY	None		
7. BOUNDARIES AND	LIMITS	SURVEYED OR IDEN	TIFIED BY	NA		<u></u>
I. SOURCE DATA				A		
None	NTROL IDEN	ITIFIED		NA NA	TROL IDENTIFIED	
PHOTO NUMBER		STATION NAME		PHOTO NUMBER	STATION DE	SIGNATION
		·				
3. PHOTO NUMBERS	(Clarification	n of details)				<u> </u>
4. LANDMARKS AND None	AIDS TO NA	VIGATION IDENTIFIED				
PHOTO NUMBER		OBJECTNAME			0.5.1543	
PHOTO NUMBER		OBJECT NAME		PHOTO NUMBER	OBJECT	NAME
5. GEOGRAPHIC NAI	MES: [REPORT X NO	NE	6. BOUNDARY AN	D LIMITS: REPO	ORT (X) NONE
7. SUPPLEMENTAL	MAPS AND	PLANS				
None						
8. OTHER FIELD RE 1 Field Edi Field Edi	t Ozalio		st data submit	ted to the Geodesy D	ivision)	

NOAA FORM 76-36C						NT OF COMMERCE
(3-72)		TP-0072	8		MOSPHERIC	ADMINISTRATION L OCEAN SURVEY
	 	HISTORY OF FIELD	OPERATIONS			
I. THELD INSPE	CTION OPE	RATION Y FIEL	D EDIT OPERATION		· -	
	90	ERATION		NAME	•	DATE
1. CHIEF OF FIELD	PARTY		M. Fle	ming_		12/74 - 1/75
		RECOVERED BY	D. Eil	ers		12/74
2. HORIZONTAL CO	NTROL	ESTABLISHED BY	None			<u> </u>
		PRE-MARKED OR IDENTIFIED BY	None			
. VERTICAL CONT	· POI	RECOVERED BY	NA NA			
N VERTICAL CONT	ROL	ESTABLISHED BY	NA NA	 -	,	
			D. Eil	070	<u> </u>	12/74
. LANDMARKS AND		ECOVERED (Triangulation Stations) BY	None	- <u>er p</u>		16/14
AIDS TO NAVIGA	TION	LOCATED (Field Methods) BY	None			
		TYPE OF INVESTIGATION	1 10110			
GEOGRAPHIC NA	MES	COMPLETE	,			
INVESTIGATION		SPECIFIC NAMES ONLY				
		NO INVESTIGATION				
6. PHOTO INSPECT	ION	CLARIFICATION OF DETAILS BY	None		<u></u> .	· · · · · · · · · · · · · · · · · · ·
. BOUNDARIES AN	DLIMITS	SURVEYED OR IDENTIFIED BY	NA	,		<u> </u>
II. SOURCE DATA	NTPOL IDE	NTIFIED	2. VERTICAL CON	TRAL IDEN	TIEIED	
None	MINOL IDE	MITTED	1	I ROL IDEN	111160	
			NA_			
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	51	ATION, DESI	GNATION
			.			
DUOTO NUMBER	6 (01 - 10 - 1	In a distantian	<u> </u>			
3. PHOTO NUMBERS	> (Clarificati	ion of details)				
None						
4. LANDMARKS AND	AIDS TO N	IAVIGATION IDENTIFIED				
None						
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	·	OBJECTIN	AMF
			101010			
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			ļ ·			
Ì						
			}			
5. GEOGRAPHIC NA		REPORT X NONE	6. BOUNDARY AN	D LIMITS:	REPOR	T X NONE
7. SUPPLEMENTAL None	MAPS AND	PLANS				
	ECORDS (St	etch books, etc. DO NOT list data submit	led to the Gardeev P	ivision)	-	
1 Form 76-4		ordi books, etc. bo not hat usts addition	ted to the Geodesy D			
	-	dit Opolid with Piola Pai	t Donaut Add	~~4~~		
	rieid D	dit Ozalid with Field Edi	re webone ware	enaum		



(3-72)	:M 76-36D	-	TP-00728		U. S. DEPARTMEN AND ATMOSPHERIC	IT OF COMMERCE ADMINISTRATION
<i>*</i>	•	RECO	ORD OF SURVE	Y USE		
I. MANUSC	RIPT COPIES					
	co	MPILATION STAG	ES		DATE MANUSCRI	PT FORWARDED
	DATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
	ation complete, g field edit.	3/74	Class III Super	Manuscript seded	3/74	3/74
	edit applied. ation complete.	3/75	Class I M	anuscript	5/31/74	
Final	Review	Jan. 1978	Finel		Feb. 1978	
II A ANDRA	ARKS AND AIDS TO NAVIGA	TION.				
	ORTS TO MARINE CHART D		L DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		RE	MARKS	
1		6/16/77	Aid			
····						
					·	···
	REPORT TO MARINE CHAR' REPORT TO AERONAUTICA	•				
	AL RECORDS CENTER DA		N, AERONAUTICAL	L DATA SECTION.	DATE FORWARDED:	
2. 🔼	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENT SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	iFiCATiON CARDS; leographic Names R	; X FORM NO:	S 567 SUBMITTED	BY FIELD PARTIES.	
4 🔲	DATA TO FEDERAL RECO	RDS CENTER. DA	TE FORWARDED:			-
IV. SURVE	Y EDITIONS (This section s			p edition is register	ed)	
	SURVEY NUMBER	JOB NUMBI			TYPE OF SURVEY	URVEY
SECOND	DATE OF PHOTOGRAP	_ (2) PH			MAP CLASS I. □IV, □V.	FINAL
	SURVEY NUMBER	JOB NUMBE	ER		TYPE OF SURVEY	LIFINAL
THIRD	тр	(3) PH		□R		URVEY
EDITION	DATE OF PHOTOGRAP		TELD EDIT	 	MAP CLASS	_
-	SURVEY NUMBER	JOB NUMBE	ER		TYPE OF SURVEY	-
FOURTH		_ (4) PH			EVISED RES	ÛRVĖY
EDITION	DATE OF PHOTOGRAPI	HY DATE OF F	TELD EDIT		MAP CLASS 1. □IV. □V.	□ FINAL



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS TP-00728 thru TP-00736

The maps covered in this summary comprise all of Project CM-7311. They are all standard shoreline maps covering Commencement Bay and including the Hylebos, Blair, Sitcum, Milwaukee, Puyallup, St. Paul, Middle and City Waterways. The purpose of the project is to provide up-to-date shoreline and alongshore delineation in support of contemporary hydrographic surveys and for nautical chart construction. All maps are 1: 5,000 scale.

Photography of the area was flown at 1:15,000 scale in June, 1973. Both onshore and offshore flights were flown. Ratios of the offshore flights were processed by the compilation office for photo-hydro support.

Field work prior to compilation was limited to the recovery and identification of horizontal control used in bridging. There was no clearification of details.

Bridging was done at the Washington Science Center in January, 1974, using the onshore flights. Analytic triangulation methods were used. Points common to the offshore flights were established to determine ratio scales.

The maps were compiled at the Atlantic Marine Center during February and March, 1974, by Wild B-8 instrument method.

Many buildings currently charted are not shown on the maps. In most cases, buildings are shown on the chart as they appear on the photographs. However, in a few instances buildings shown on the chart are not visible on the photographs. Where this is so, that fact is stated in the review report of the affected map.

Field edit was partially done in April, 1974 and completed in December, 1974. It was applied to the maps at the Atlantic Marine Center in May, 1975.

Final review was performed at the Atlantic Marine Center in January, 1978. The original base maps and all pertinent data was forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00728

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

Tacoma Harbor Washington Job CM-7311. January 1974

21. Area Covered

The area covered by this report pertains to the shoreline of Commencement Bay, Tacoma, Washington. This area is covered by nine 1:5,000 scale sheets, TP-00728 thru TP-00736.

22. Method

Three strips of 1:15,000 scale color photography were bridged by analytic aerotriangulation methods. Strip No. 1 was measured on the David W. Mann Company mono comparator Model 422 and strips 2 and 3 were measured on the Wild stereo comparator. Sketch number 1 shows the flight lines of the photography and the placement of the control used in the adjustment. The three strips were controlled by field identified control paneled in 1973. Old control, which was office identified, was floated for checks. Ties were made between all bridging strips. Common points were located between the bridging photography and the offshore flights to determine the ratio scale. One cronapaque and one matte each were ordered of the offshore flights. Sketch number 2 shows the flight lines of the offshore photography. Data for ruling projections were furnished to the Coradomat to be plotted on the Washington South Plane Coordinate System.

23. Adequacy of Control

The control was adequate.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

25. Photography

The photography was adequate.

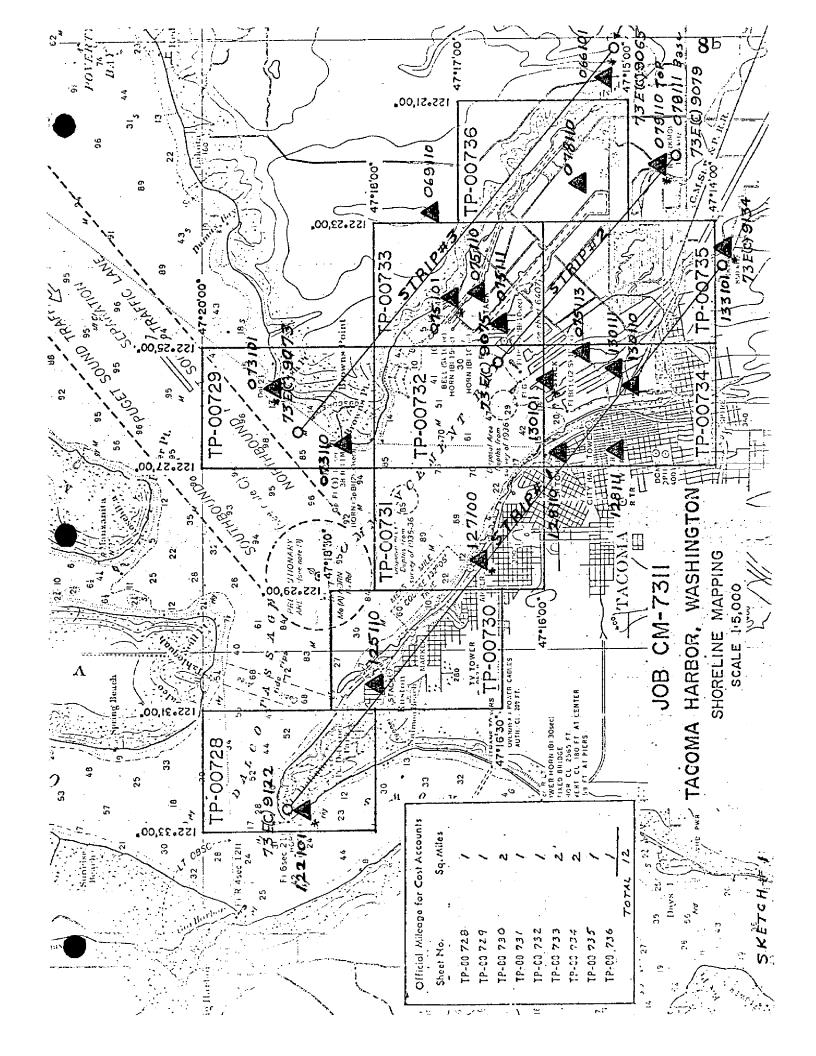
Respectfully submitted,

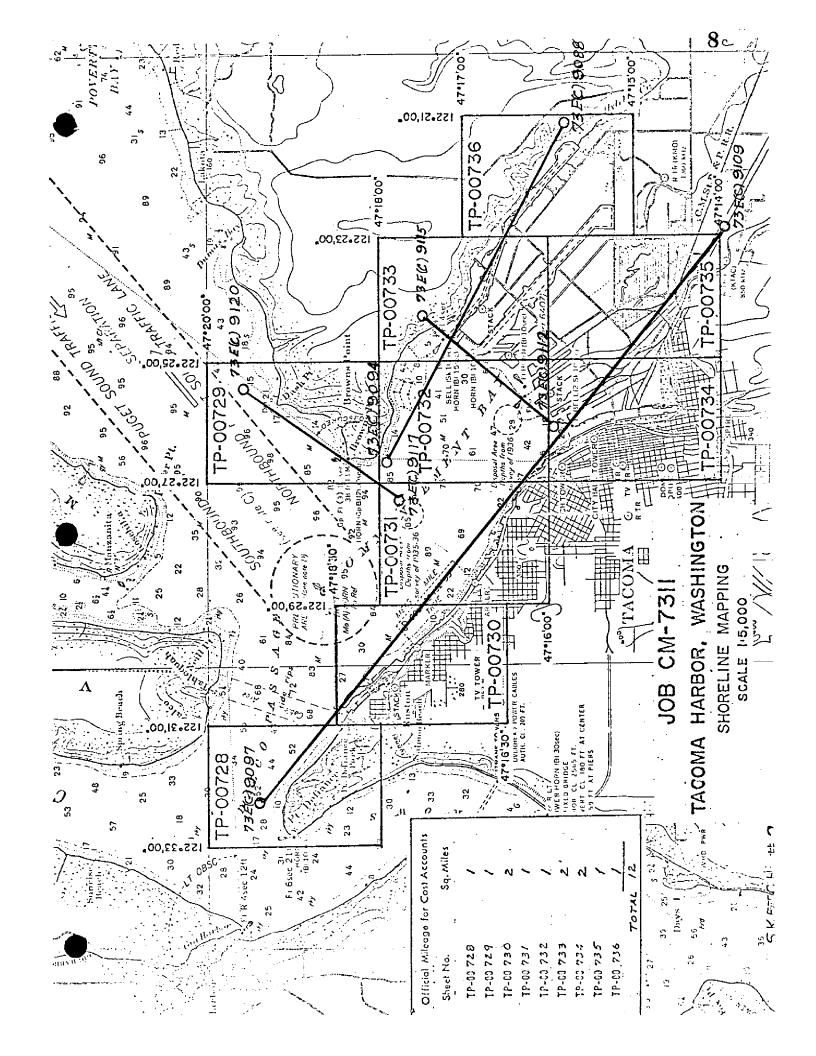
Juy V. Rohoun Iver O. Raborn

Approved and Horwarded:

John D. Perrow, Jr.

Chief, Aerotriangulation Section





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NDAA FORM 76-41 (6-75)		VESCEIDITIV	DESCRIPTIVE PEDODI CONTROL BECORD	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION D.D.	S. DEPARTMENT O	F COMMERCE
		VESCRIP 11V	E REPURI CONTRUE RECUE			
MAP NO. TP-00728	JOB NO. CM-7311	11	GEODETIC DATUM NA 1927	Division AMC N	Coastal	Mapping
		AFBOTRI-	COORDINATES IN FEET		Carrot Tour	V-1- 8-111-4
STATION NAME	SOURCE OF	ANGULATION	STATE	\$ LATITUDE	REMARKS	- AKS
	Т	NUMBER	ZONE	A LONGITUDE	FORWARD	BACK
BOR 102/) zx	φ 47 18 57.757	1783.7	(69.2)
	P. 71		= 20	λ 122 32 47,097	989.1	(271.0)
STOL THOSE TAXABLE TAXABLE	Field Comp.		β= 4=	19	32.1	(1810.8)
FOINT DEFINING LIGHT, 1913	Form 76-40		y=	λ 122 32 48.71	1023.0	(237.1)
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			í e	۲		
			φ = x	•		
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			<i>y=</i>	γ		
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			y=)	γ		
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			•	~		
computed By A. C. Rauck, Jr		DATE 1/30/74	COMPUTATION CHECKED BY F.	R. Gustafson	DATE 2/01/74	7.4
]	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	I IS OBSOLETE.		$\frac{1}{9}$

COMPILATION REPORT

TP-00728

31. <u>DELINEATION</u>:

Delineation was by the Wild B-8 stereoplotter, using 1:15,000 scale color photography. The photograph coverage was adequate.

32. CONTROL:

See the attached Photogrammetric Plot Report dated January 1974.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details and the mean high water line were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

36. OFFSHORE DETAILS:

There were no offshore details compiled.

37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the attached Form 76-36B, Item #5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangle: GIG HARBOR, WASHINGTON, scale 1:24,000, dated 1959, photorevised 1968.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following USC&GS Chart: No. 6407, scale 1:15,000, 12th edition, January 27, 1973.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

F. R. Gustafson Cartographic Aid March 1, 1974

Approved for forwarding:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

NDAA FORM 75-74			ι	J.S. DEPARTMENT OF COMMERCE
(7-75)	РНО	TOGRAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURVEY
			- 00728	•
1. PROJECTION AND GRIDS	12 TITLE		13. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
•••••••				
RRW	RF	W	RRW	RRW
CONTROL STATIONS		T		~
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	0. RECOVERAL OF LESS TH (Topographic	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
RRW		(1opograpiii	NA	NA
8. BENCH MARKS	9. PLOTTING OF	F SEXTANT	10, PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
RRW	AI	.S	RRW	RRW
ALONGSHORE AREAS (Nautical	Chart Data)			
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES
RRW	RF	ew .	RRW	RRW
16. AIDS TO NAVIGATION	17. LANDMARK		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RRW	AI	.S	RRW	RRW
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
RRW			NA	NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	N.A	L	NA	RRW
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS	•	29. RAILROADS	30. OTHER CULTURAL FEATURES
RRW	RR	ìW	RRW	RRW
BOUNDARIES				
31. BOUNDARY LINES N	·A	*	32. PUBLIC LAND LINES	NA
MISCELLANEOUS				
33. GEOGRAPHIC NAMES		34. JUNCTION	S	35. LEGIBILITY OF THE MANUSCRIPT
RRW	•		RRW	RRW
36, DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
RRW	RR	ew	NA	RRW
40. REVIEWER	0111	-	SUPERVISOR, REVIEW SECTIO	
Richard R. White	01.UM	12_> 2/74	Albert C. Rauck, J	ДА. У. r.
	-43		<u> </u>	
41. REMARKS (See attached sheet FIELD COMPLETION ADDITION		TIONS TO THE M	ANUSCRIP T	
42. Additions and corrections script is now complete ex-			ion survey have been applied t	o the manuscript. The manu-
COMPILER J. R. Mint	=====================================	3/17/75	ISUPERVISOR	uch l
Reviewer A. L. Shan	ds	5/75	Albert C. Rauck, J	r.
43. REMARKS Q. L. Sha	nds			
See Forms 76	-36C, Items	8		

January 11, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7311 (Tacoma Harbor, Washington)

TP-00728

Dalco Passage

Point Defiance

Salmon Beach (locality)

Tacoma

The Narrows

Approved by:

Charles E. Harrington Staff Geographer - C51x2

FIELD EDIT REPORT

COMMENCEMENT BAY

TACOMA, WASHINGTON

OPR-412

MARCH - APRIL 1974

INTRODUCTION

Field edit reports are attached for the following maps: TP-00728, TP-00729, TP-00730, TP-00731, TP-00732, TP-00733, TP-00734, TP-00735, and TP-00736. Copies of the Field Edit Ozalids and extra ozalids were compared in the field with actual shore features. The field edit was done before signals were built in many areas, so positions of many items were estimated relative to nearby features. In many instances these positions fell on one or more natural ranges. Some sextant fixes were possible and wearecorded for future reference. Height data for all features were noted as referenced to MLLW or MHW or simply by time and date. Unless followed by a "Z" for GMT, all times are in Zone +7 (105° meridian).

All notes have been made in violet ink on the Field Edit Ozalids with the exception of TP-00733 for which another sheet was used and labeled "Smooth Ozalid." All deletions are noted or underlined with green ink.

During our work in the survey area, a great deal of new construction was observed. Shoreline construction sites were noted - as fully as possible - on the ozalids. It is suggested that any questions about new piers, etc. under contruction be directed to the Property Manager, Port of Tacoma (adress below).

Hugh Wild Property Manager Port of Tacoma P.O. Box 1837 Tacoma, WA 98401

Compilation of the maps agreed well with actual shore features; any discrepancies are noted on the ozalids. Field edit of these manuscripts is not complete, especially for the inland. It is felt that all shore features of importance to the mariner have been adequately covered and noted.

Submitted by,

R. W. Meiser

R.W. Mercer ENS, NOAA

M.H. Fleming CDR, NOAA Commanding Officer NOAA SHIP DAVIDSON

FIELD EDIT REPORT

MAP TP-00728

TACOMA, WASHINGTON

MARCH - APRIL 1974

Field edit map TP-00728 was done by Ens. R.W. Mercer, Ens. Joseph J. Kapler and Ens. John L. Oswald during March and April of 1974. Inspection was done from skiffs and on foot where necessary.

METHOD

A copy of the field edit Ozalit was examined in the field and mapped features verified or unmapped items noted appropriately. Mean high waterline verification was done by visual comparison of the Ozalid and the shoreline in the field. Verification by sextant fixes was not possible due to lack of control during the field edit. Height data of rocks is noted directly on the Ozalid; all times noted are GMT +7 zone time.

ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic location of details compares well with photogrammetric location.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the Ozalid and then accepted as an advanced manuscript.

Respectfully submitted,

Roger W. Mercer ENS, NOAA

ADDENDA FIELD EDIT REPORT

Commencement Bay, Washington Dec 1974 - Jan 1975 OPR-412 · Project CM-7311

This report is a follow-up and completion of the original field edit accomplished in this area in March and April of 1974. Certain deficiencies were noted in the original field edit; and this report is being submitted to correct, clarify, or alleviate any errors or misconceptions that may have been conveyed in the original report.

Although this report was not intended to be a complete re-field edit of the area, certain items from the previous report were checked to verify positions and resolve suspect features. It is suspected the original field editors did not use the photographs to their full advantage as the majority of items in question could be located by photogrammetric methods.

The majority of the landmarks were verified by computing the inverse for intersection stations and occupying marked triangulation stations and observing theodolite cuts.

The field edit copies of the manuscripts were used for the field corrections (in blue and dated) and the photographs were cross-referenced to the field edit copies.

Adequacy: The extent and accuracy of this field edit with amended items of the original field edit and completed forms 76-40 now appears complete.

Pertinent information for each individual discrepancy sheet is listed under that specific sheet.

TP-00728

Re-field edited 12/11/74. Agreed with the original field edit except the bluff in question is considered of landmark value. It is of significant height, and distinct boundaries are clear as plotted.

For verification of Pt. Defiance Light see attached NOAA Form 76-40.

TP-00729

Re-field edited 12/11/74. Original field edit complete. Brown Point Lighthouse recovered. See attached form 76-40.

TP-00730

Re-field edited on 12/12/74, 12/13/74, and 1/10/75. All landmarks were recovered. Lighted aids to navigation were located by photogrammetric methods on photograph 73E9100. The triangulation station TARGET, 1952, in question was reported destroyed in 1965 by H.J.S. (page 41 of book 392) and no attempt was made to recover it.

The position of the Commencement Bay Measured Nautical Mile northwest range front marker was determined by an angle distance from reference mark of the triangulation station TARGET. The position of the northwest range rear marker was determined by an angle and distance from the reference mark of triangulation station BLUFF, 1935. Both positions are less than third order. See the enclosed computations and form 76-40.

TP-00731

Re-field edited on 12/12/74. The positions of the Commencement Bay Measured Nautical Mile southeast markers, both front and rear, were determined by an angle and distance from RUSTON, RM NO2. Both positions are less than third order. See the enclosed computations and form 76-40.

TP-00732

Re-field edited on 12/10/74. Nonfloating aids to navigation were triangulation stations that were recovered. The new stack considered of landmark value was located photogrammetrically.

The Grain Export Facility under construction in April, 1974, is nearing completion. The pier faces are complete with work on the tower continuing. Port authorities expect to have the facility in operation in June, 1975. The plans for this facility were obtained and are enclosed.

TP-00733

This sheet was re-field edited on 12/10/74, 1/6/75, and 1/10/75. Two charted tanks are gone and should be deleted from the charts. See enclosed form 76-40.

Three landmarks (triangulation stations) were recovered and recovery notes submitted. The twin chimneys were located photogrammetrically on photograph 73E9091. The charted stack mentioned in the April, 1974, field edit as being of no landmark value is considered of landmark value in this report. Although poorly visible from Commencement Bay, it is quite distinguishable in the Hylebos Waterway. See photograph 73E9091.

Two large dome-shaped storage elevators depicted on the charts, but not compiled on the ozalid, should be left on the charts, as they are salient features and visible from offshore in Commencement Bay. See photograph

73E9113. Two navigation lights were recovered, and the fog signals were located photogrammetrically on photograph 73E9114.

TP-00734

The three items not previously investigated were field edited 12/12/74 and noted on the ozalid. One nonfloating aid to navigation was recovered. One tank, as noted on form 76-40, should be deleted from the chart, as it no longer exists.

Fourteen landmarks were located. Twelve were triangulation and were recovered. Two were located photogrammetrically on photograph 73E9104.

TP-00736

Re-field edited 12/12/74. The new boat was located on photograph 73E9090 by planetable methods. It is a private boat ramp and not maintained by the port authorities. The two stacks considered of landmark value by this field edit were located photogrammetrically on photograph 73E9089 and 73E9088.

There is new construction of a barge-loading facility in the Blair Water-way turning basin. The plans for this facility were obtained from the Port authorities and are enclosed.

Respectfully submitted.

D.S. Eilers LTJG, NOAA Michael H. Fleming

CDR, NOAA

Approved by

Commanding Officer

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TYPE OF ACTION	NAME		ORIGINATOR
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	1		GEODETIC PARTY
	D. S. Eilers, Lt. (jg), NOAA	NOAA	OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	D. S. Eilers, Lt. (jg), NOAA	, NOAA	FIELD ACTIVITY REPRESENTATIVE
	J. R. Minton, Cartographic Technician	ohic Technician	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL			REVIEWER
AND REVIEW GROUP AND FINAL REVIEW			QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES			REPRESENTATIVE
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	(Consult Photogrammetric Instructions No. 64,	c Instructions No. 64,	
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day, and year) of the photograph used to	tograph used to	date of field work	date of field work and number of the photo-
identify and locate the Sbject.	bject.	graph used to locat	te or identify the object.
8-12-75			
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I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: - Field P - Photogrammetric

Verified Located

Triangulation - Field identified

Vis - Visually

Traverse

Theodolite

Intersection

Sextant Planetable

Resection

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

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH EXAMPLE: V-Vis. Enter 'V~Vis.' and date.

8-12-75

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

NOAA FORM 75-40 (8-74)

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



REVIEW REPORT

TP-00728

SHORELINE

January 5, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this descriptive report.

A net marking a swimming area was delineated on the map at lat. 47° 18.8', long. 66° 31.6' during final review. This net had previously been shown on the Class III map but was deleted following field edit application. The field editor stated that it was in use only during the summer months.

A road adjacent to the north shoreline was removed from the map when an examination of the photographs did not reveal any evidence of its existence.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No comparison was made. Hydrographic Survey H-9410 which covers the area was not available during final review.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 18453, 1:15,000 scale, 14th edition dated May 29, 1976. There are no significant differences.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by,

a. I. Shands

A. L. Shands Final Reviewer

Approved for forwarding:

Jeffrey G. Carlen, CDR

Chief, Coastal Mapping Division, AMC

albut Chausky FOR

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00728

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 Review.

CHART	DATE	CARTOGRAPHER	REMARKS
18453	9/9/81	R.a. Zellis	Full Part Before After Verification Review Inspection Signed Via
·		4/30/81-RCS	Drawing No. 24
20/11/10	al de	001111	Full-Part Before After Verification Review Inspection Signed Via
18448	9/15/81		Drawing No. 3/
		9-30-81-Ras	Diawing No. 37
18445	9/10/81	R. a. Lilles	Full Part Before After Verification Review Inspection Signed Via
C&B		9-30-81 RCS	Drawing No. 18
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