

TP-00779 ORIGINAL

TP-00779

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline

Job No. ~~OM-7404~~ Map No. TP-00779

Classification No. **Final** Edition No. **1**

Field Edited Map

LOCALITY

State California

General Locality Point Vicente to
Port. Hueneme

Locality Mugu Lagoon

1974 TO 1976

REGISTRY IN ARCHIVES

DATE

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

18725
18740

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. <u>00779</u>	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. <u>(1)</u>	
				<input type="checkbox"/> RESURVEY		MAP CLASS <u>Final</u>	
				<input type="checkbox"/> REVISED		JOB <u>PA-CM-7404</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va.				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.				TYPE OF SURVEY		JOB PH. _____	
				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation 11/4/74				Premarking 1/30/74			
Compilation 1/8/75				Premarking Amendment I 3/14/74			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION				4. GRID(S)			
Polyconic				STATE California		ZONE 5 and 7	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				B. Thornton		Jan 1975	
METHOD: Analytic LANDMARKS AND AIDS BY							
2. CONTROL AND BRIDGE POINTS PLOTTED BY				R. Robertson		Feb 1975	
METHOD: Coradomat CHECKED BY				R. Robertson		Feb 1975	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				Jim Byrd		Dec 1975	
COMPILATION CHECKED BY				A.C.R.		Dec 1975	
INSTRUMENT: Wild B-8				CONTOURS BY		NA	
SCALE: 1:15,000				CHECKED BY		NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY				J. R. Minton		Jan 1976	
CHECKED BY				A. L. Shands		Mar 1976	
METHOD: Smooth drafted				CONTOURS BY		NA	
CHECKED BY				NA			
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				J. R. Minton		Jan 1976	
CHECKED BY				A. L. Shands		Mar 1976	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				A. L. Shands		Mar 1976	
6. APPLICATION OF FIELD EDIT DATA BY				J. Roderick		Jul 1977	
CHECKED BY				L. O. Neterer Jr.		Oct 1977	
7. COMPILATION SECTION REVIEW BY				L. O. Neterer, Jr.		Oct 1977	
8. FINAL REVIEW BY				A. L. Shands		Mar 1979	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				A. L. Shands		Apr 1979	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				F.R. WATTS		JUN 1979	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				E.L. DAUGHERTY		DEC 1979	

TP-00779
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED	ZONE Pacific		<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY			MERIDIAN 120th		<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 74L(C) 1020-1023	03/04/74	11:03	1:30,000	+0.0 ft. of MLLW	
** 74L(I) 2236-2238	04/05/74	09:13	1:30,000	+0.2 ft. of MHW	
** 74L(I) 1600-1603	03/21/74	15:02	1:30,000	+0.2 ft. of MLLW	

REMARKS
*Bridge and compilation photography (Predicted tides)
**Tide coordinated photography at MHW and MLLW.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled graphically from the above listed tide coordinated photography, and from a measurement supplied by the field editor.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The mean lower low water line was compiled graphically from the above listed tide coordinated photography.

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 No survey	EAST TP-00780	SOUTH No survey	WEST TP-00777

REMARKS

TP-00779
HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	Feb 1974
2. HORIZONTAL CONTROL	RECOVERED BY	None
	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 (<i>Triangulation Stations</i>) BY	None
	LOCATED (<i>Field Methods</i>) BY	None
	IDENTIFIED BY	None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

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 NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

None

TP-00779
HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Randall	Nov-Dec 1976
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None	
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (<i>Triangulation Stations</i>) BY LOCATED (<i>Field Methods</i>) BY IDENTIFIED BY	None J. Osborn Jr. None	 Dec 1976
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	J. Osborn Jr.	Dec 1976
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	NA	

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*)
74L(C) 1600-1602, 1604

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
None

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

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Jan 1976	Class III manuscript superseded	9/29/76	8/6/76
Field edit applied compilation complete	Jul 1977	Class I manuscript		None
Final Review	Mar 1979	Final	Apr 1979	

II. LANDMARKS AND AIDS TO NAVIGATION

I. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
✓ 1		Oct. 17, 1977	1 non-floating aid to be charted
✓ 2		Oct. 17, 1977	12 landmarks for charts

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Oct. 17, 1977
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

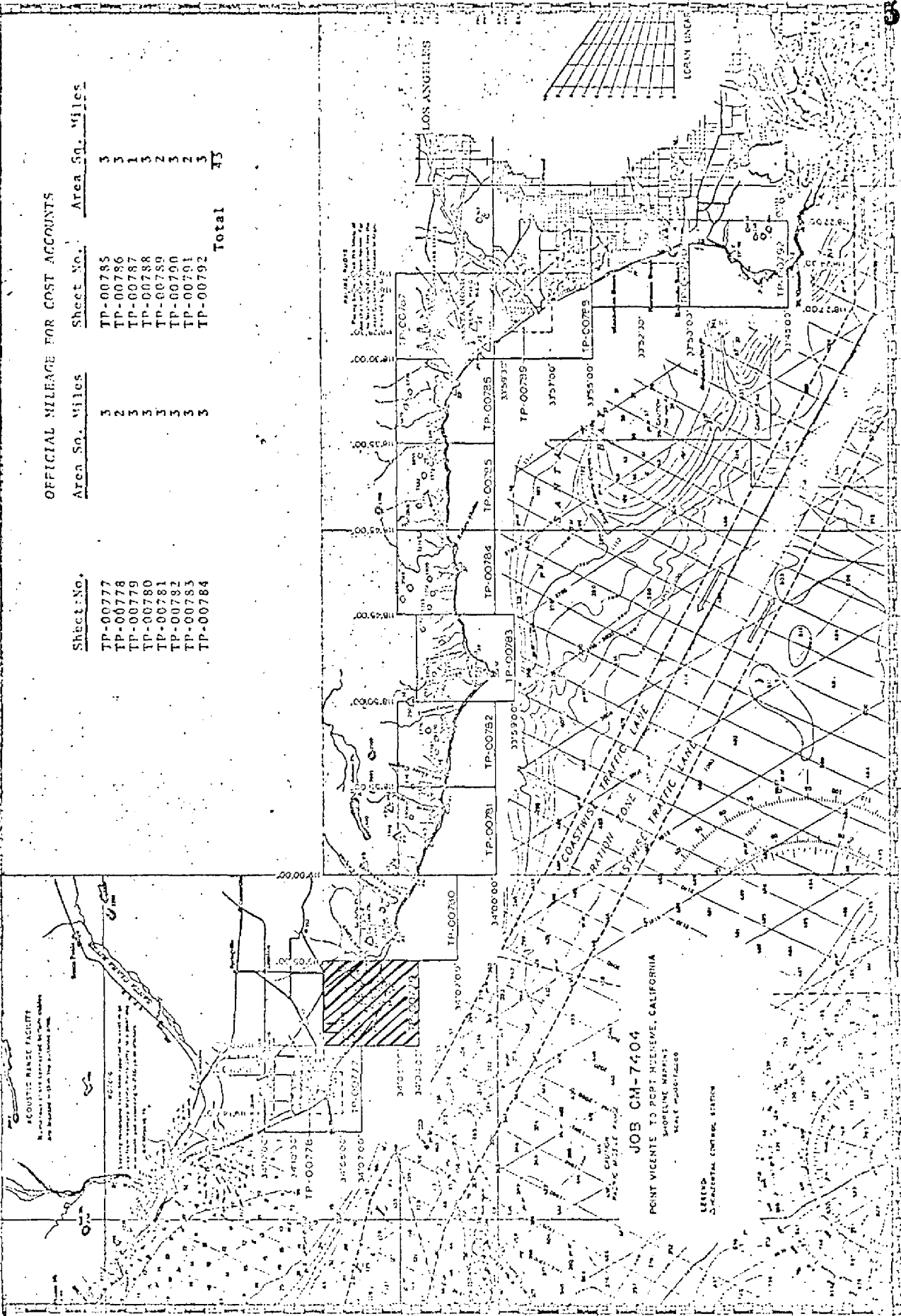
1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS ⁷⁶⁻⁴⁰ ~~507~~ SUBMITTED BY FIELD PARTIES.
 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
 4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

SECOND EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY	
	TP - _____ (2)	PH - _____	<input type="checkbox"/> REVISED	<input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS	
			<input type="checkbox"/> II.	<input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY	
	TP - _____ (3)	PH - _____	<input type="checkbox"/> REVISED	<input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS	
			<input type="checkbox"/> II.	<input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY	
	TP - _____ (4)	PH - _____	<input type="checkbox"/> REVISED	<input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS	
			<input type="checkbox"/> II.	<input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Area Sq. Miles	Sheet No.	Area Sq. Miles
TP-00777	3	TP-00785	3
TP-00778	2	TP-00786	3
TP-00779	3	TP-00787	1
TP-00780	3	TP-00788	3
TP-00781	3	TP-00789	2
TP-00782	3	TP-00790	3
TP-00783	3	TP-00791	2
TP-00784	3	TP-00792	3
		Total	43



JOB CM-7404
 POINT VICENTE TO POINT VICENTE, CALIFORNIA
 SLOPELINE MAP
 1:50,000

LEGEND
 Industrial control zones
 Industrial control stations

6

SUMMARY TO ACCOMPANY

TP-00777 through TP-00792

Maps included in this summary comprise all of project CM-7404, Point Vicente to Port Hueneme, California. All but three of the sixteen maps in this project are 1:10,000 scale. The others, TP-00778, TP-00789 and TP-00791 are each 1:5,000 scale. All are standard shoreline maps, the purpose of which is to provide up-to-date shoreline and alongshore delineation for contemporary hydrographic surveys and for nautical chart construction.

The project area is immediately northwest of the city of Los Angeles. The shoreline is a mixture of wide, smooth, sandy beach and rough, rocky cliff areas.

Field operations prior to delineation did not include clarification of photographic details. They were limited to the recovery and identification of horizontal control and providing ground support needed to obtain tide coordinated photography.

Three sets of photographs were supplied and used for the delineation of each map. Natural color photographs were used for bridging and instrument compilation. Tide coordinated, black and white infrared photographs were used to graphically compile the mean high water line and mean lower low water line. The 1:5,000 scale maps were compiled with 1:15,000 scale photographs. The 1:10,000 scale maps were compiled with 1:30,000 scale photographs.

Bridging was done at the Washington Science Center in January 1975. Ratios were determined and ordered at that time. All maps were compiled at the Atlantic Marine Center in the Spring of 1975.

Field edit was performed in three parts. Maps TP-00785 through TP-00792 were edited in the fall of 1975. The location of some offshore features was not completed until the spring of 1976. At that time Maps TP-00781 through TP-00784 were edited. Maps TP-00777 through TP-00780 were edited in the fall of 1976. All edit was applied at the AMC.

Final Review was performed at the Atlantic Marine Center in the Winter of 1979. The original base maps and all pertinent data was forwarded to the Washington Science Center for reproduction and final registration.

FIELD INSPECTION

TP-00779

Field inspection was limited to the recovery and identification of horizontal control for aerotriangulation, and ground support for the tide coordinated infrared photography.

Photogrammetric Plot Report
Point Vicente to Port Hueneme
Job CM-7404

JANUARY 1975

21. Area Covered

The area covered by this report is the southwest coast of California from Point Vicente to Port Hueneme. This area is covered by thirteen 1:10,000-scale sheets, TP-00777 thru TP-00792, with the exception of sheets TP-00778, 789, and 791, which are at a scale of 1:5,000.

22. Method

Five strips of 1:30,000-scale color photography were bridged by analytic aerotriangulation methods. The five strips of bridging photography were controlled by field-identified control including some control from previous airport surveys which were used as checks.

Common points were located on the bridging photography and the tide-controlled IR for ratio purposes. In addition, common points were located on the bridging and compilation photography. The points read on the bridging strips are more than adequate for compilation purposes. Tie points were used in all five strips to insure an adequate junction of all strips during the strip adjustments.

23. Adequacy of Control

Control checked well within map accuracy standards and is more than sufficient for intended use. The results from the 1:30,000 bridging photography were adequate enough so as to not make it necessary to bridge the 1:15,000 compilation photography. See attached sheet for accuracy of control in strip adjustment.

24. Supplemental Data

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

25. Photography

The coverage, overlap, and quality of the photography was adequate for the job.

Submitted by,

Approved and forwarded:

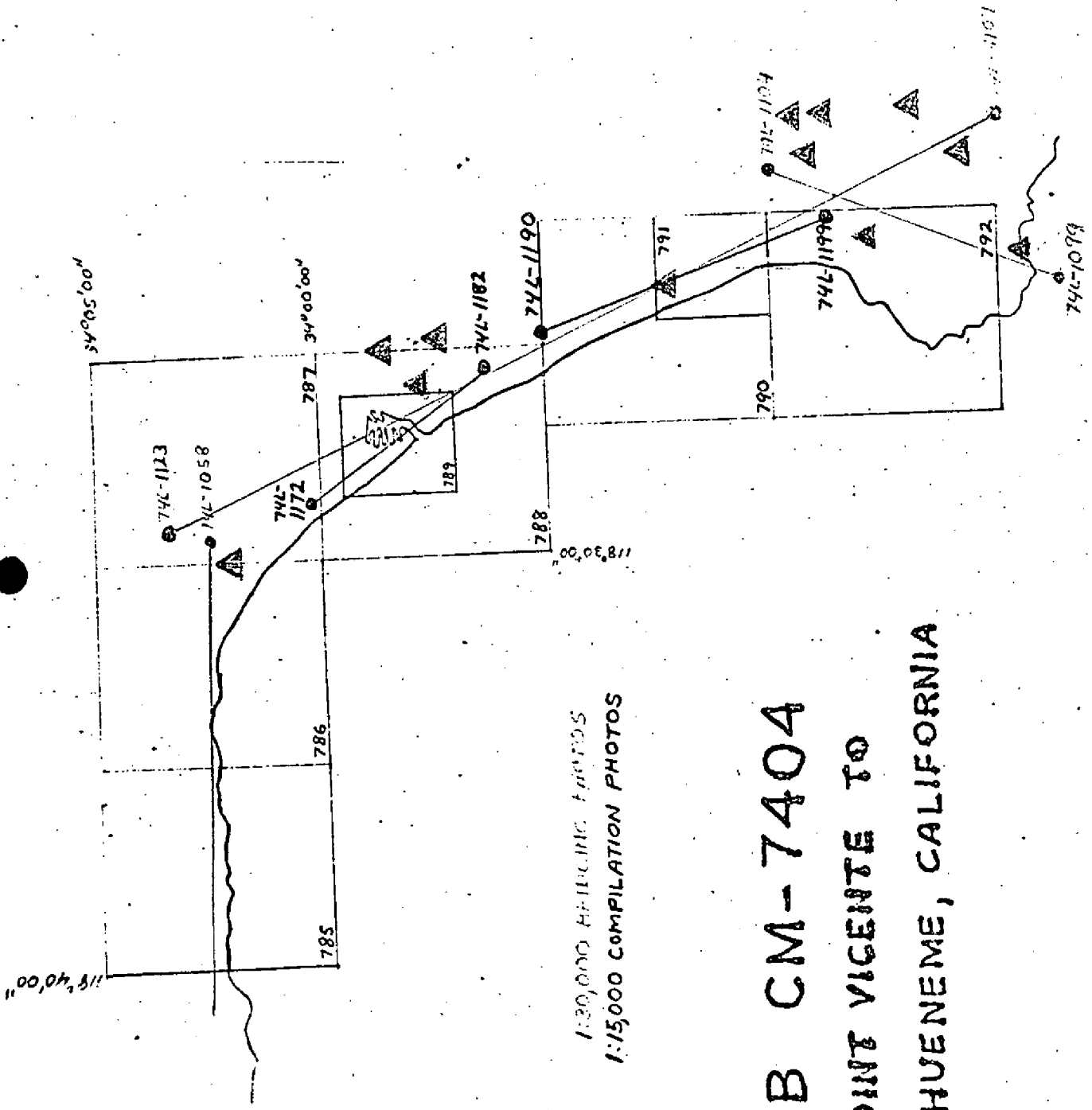
Brian F. Thornton

John D. Perrow, Jr.
Chief, Aerotriangulation Section

Attachment

List and Accuracy of Control Used in
Strip Adjustment

	POINT	X-ERROR	Y-ERROR
Strip #1:	9101	0	0
	11114.	0	0
	13101	0	0
Strip #2:	13101	.381	.253
	24101	-1.368	-.581
	28100	1.455	.573
	34100	-.475	-.246
Strip #3:	28100	.626	1.068
	50100	-.267	1.023
	58101	.064	-.204
Strip #4:	108101	-1.954	-.873
	111111	2.718	3.046
	113101	-.123	-2.005
	117100	-1.029	-.525
	58101	.382	.363
Strip #5:	99100	.001	.001
	110801	-.004	-.001
	111801	1.078	.017



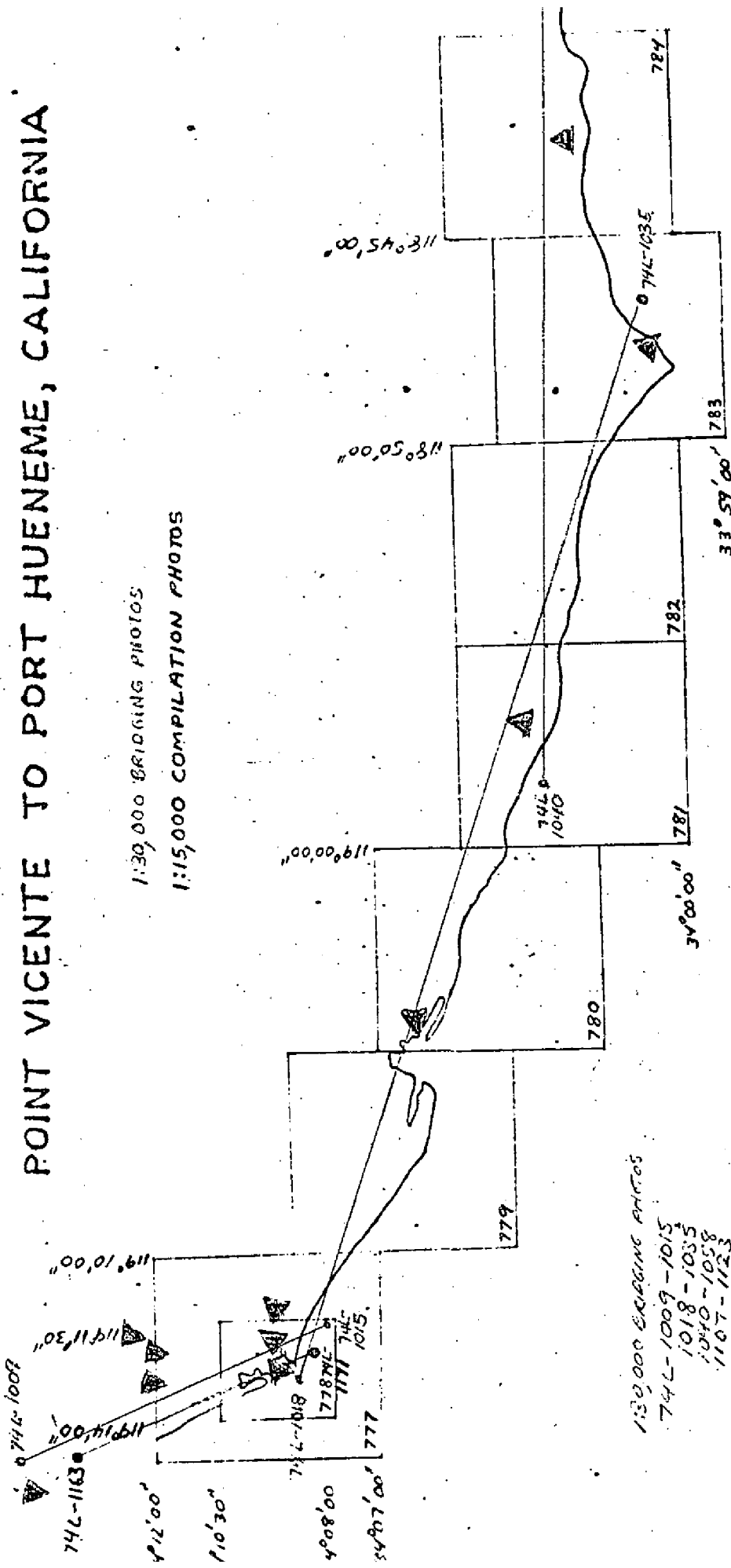
1:30,000 AIRCRAFT PHOTOS
1:15,000 COMPILATION PHOTOS

JOB CM-7404
POINT VICENTE TO
PORT HUENEME, CALIFORNIA

JOB CM-7404

POINT VICENTE TO PORT HUENEME, CALIFORNIA

1:30,000 BRIDGING PHOTOS
 1:15,000 COMPILATION PHOTOS

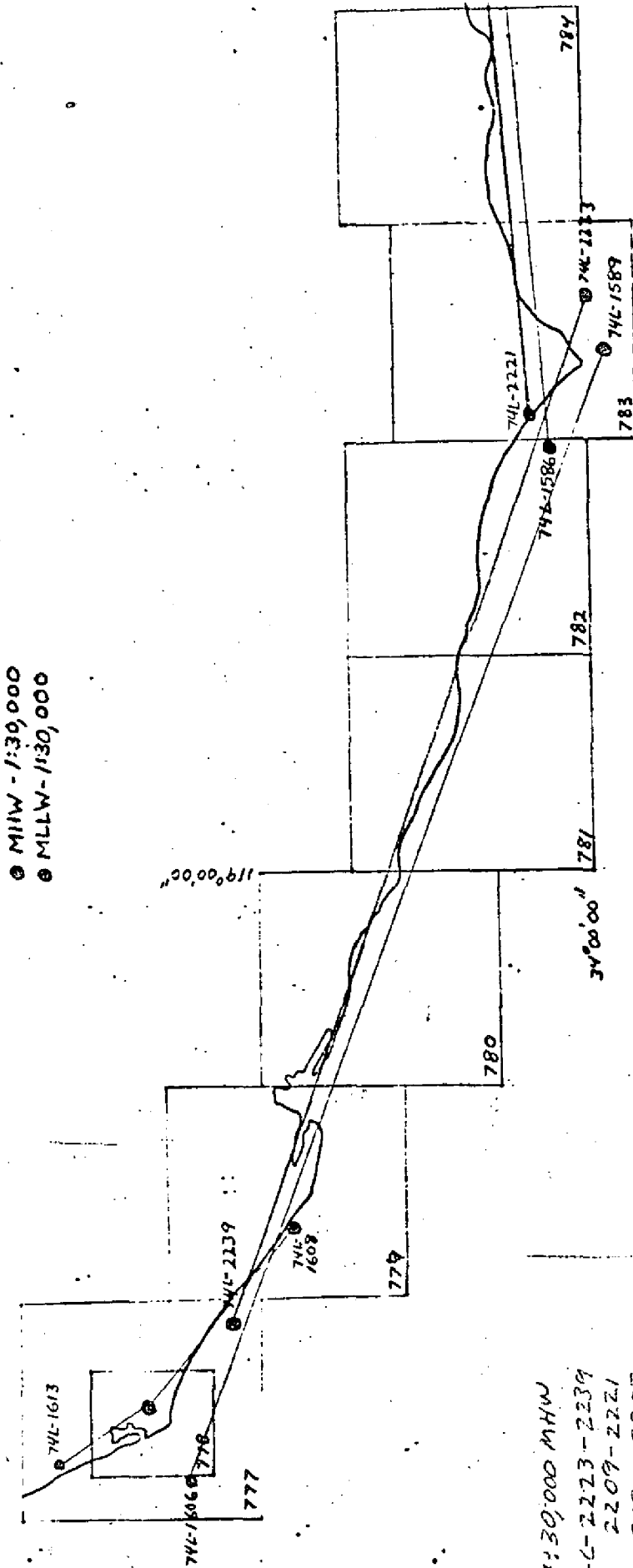


1:30,000 BRIDGING PHOTOS
 74L-1009-1015
 1018-1035
 1040-1058
 1107-1123
 1099-1104

1:15,000 COMPILATION
 74L-1163-1171
 1172-1182
 1190-1199

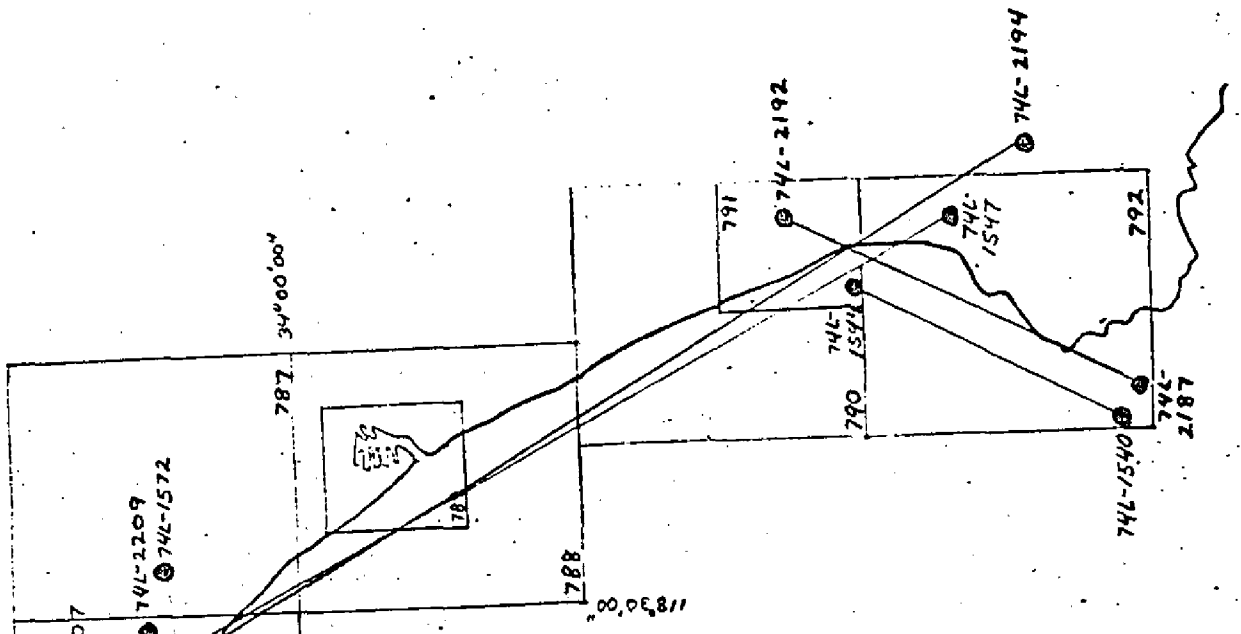
JOB CM-7404

POINT VICENTE TO PORT HUENEME, CALIFORNIA



1:30,000 MHW
 74-L-2223-2239
 2209-2221
 2194-2207
 2187-2192

1:30,000
 74-L-1608-1613
 1589-1606
 1572-1586
 1547-1558
 1540-1544

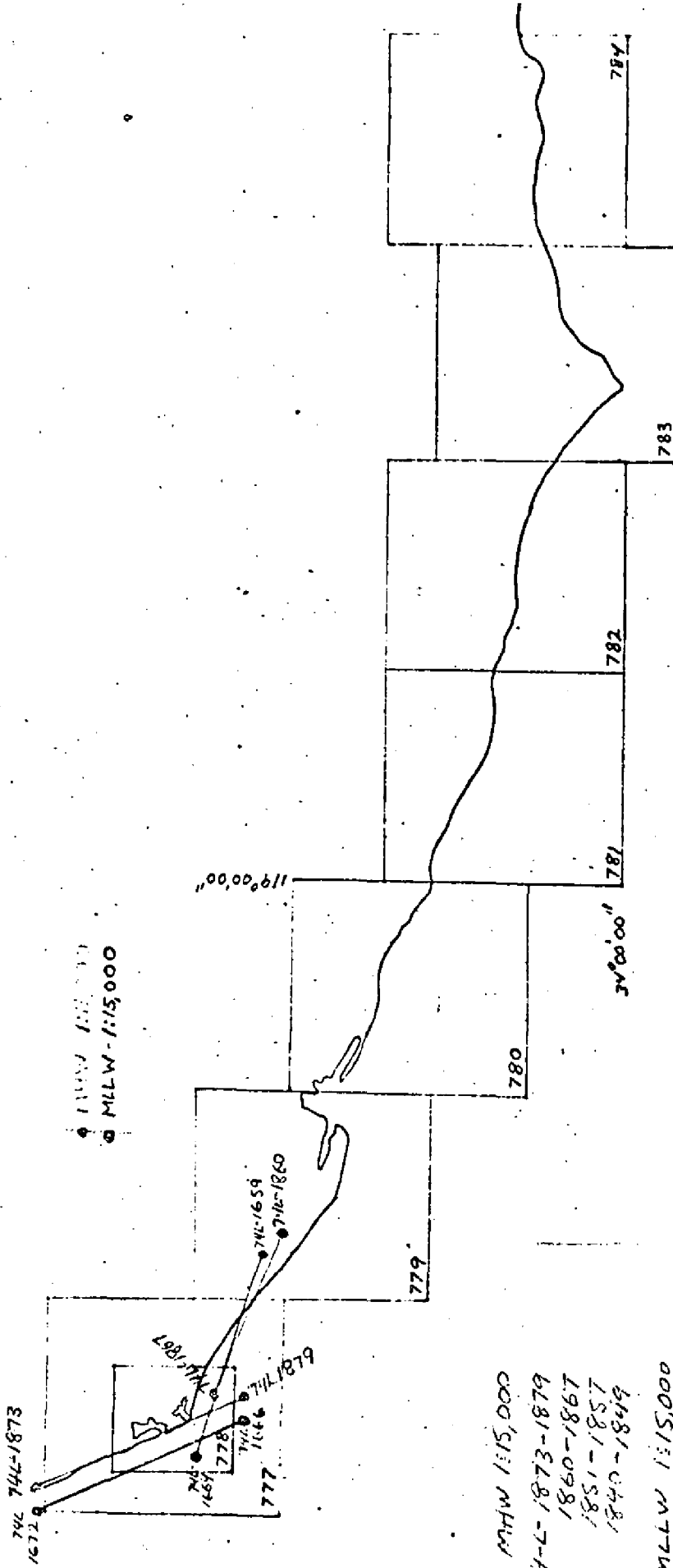


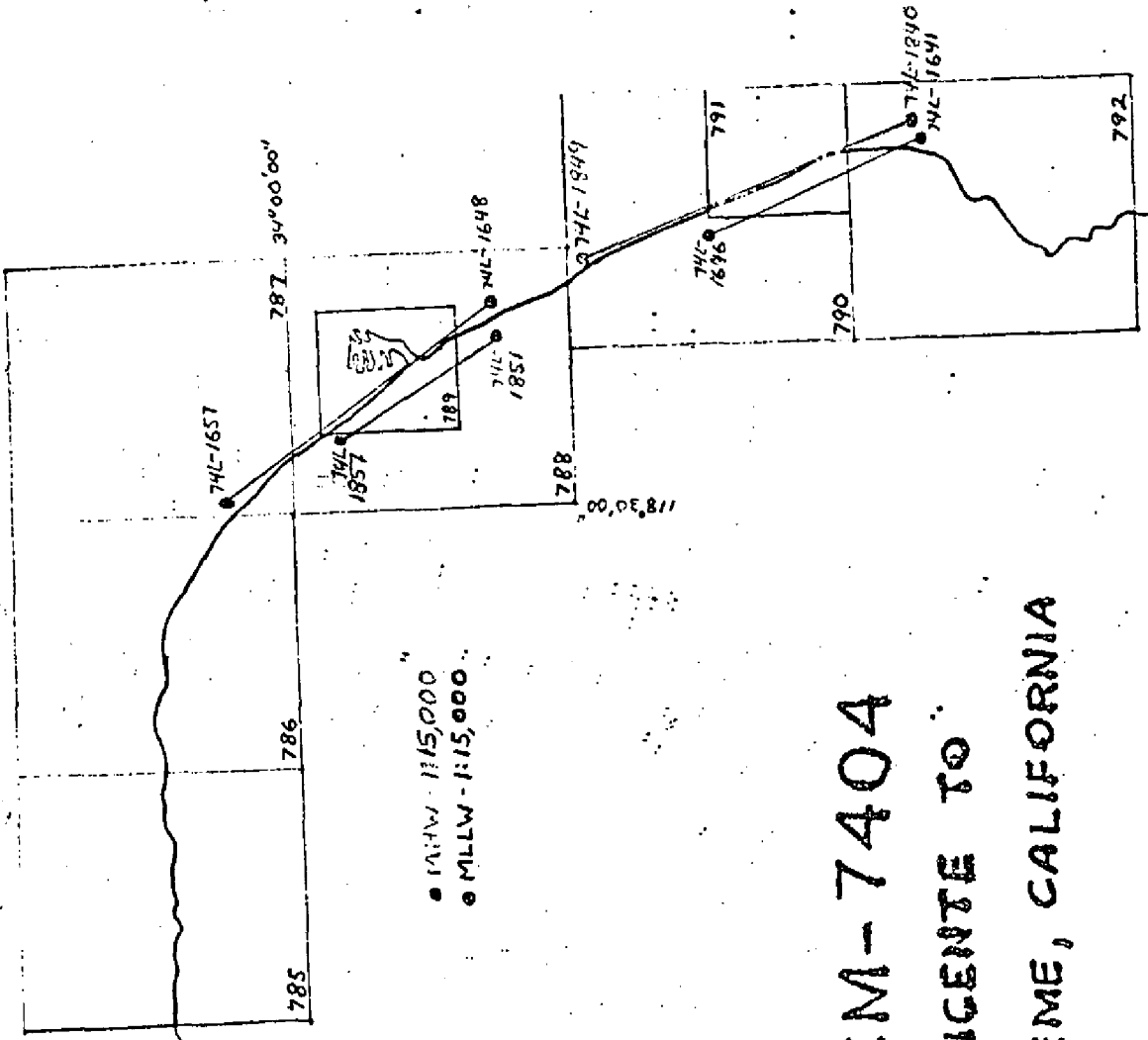
- MHW - 1:30,000
- ⊙ MLLW - 1:30,000

JOB CM-7404
 POINT VICENTE TO
 PORT HUENEME, CALIFORNIA

JOB CM-7404

POINT VICENTE TO PORT HUENEME, CALIFORNIA





JOB CM-7404

POINT VICENTE TO

PORT HUENEME, CALIFORNIA

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM		COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	ORIGINATING ACTIVITY	REMARKS	
					NA	1927				Division, Norfolk, Va.	Coastal Mapping
TP-00779	CM-7404										
	Quad 341192	LOST, 1951	1075			X=	ϕ 34 05 46.607			1436.0	(412.7)
	Quad 341192	LINED, 1951	1074			Y=	λ 119 06 34.557			885.8	(652.3)
	Quad 341192	ARM, 1951	1057			X=	ϕ 34 05 58.077			1789.4	(59.3)
	Quad 341192	BOOSTER, 1951	1062			Y=	λ 119 07 12.965			332.3	(1205.6)
	Quad 341192	BEACH, 1951	1060			X=	ϕ 34 06 18.722			576.8	(1271.9)
						Y=	λ 119 06 27.017			692.5	(845.4)
						X=	ϕ 34 06 36.021			1109.8	(738.9)
						Y=	λ 119 07 29.085			745.4	(792.4)
						X=	ϕ 34 06 25.753			793.5	(1055.2)
						Y=	λ 119 08 20.551			526.7	(1011.1)
						X=	ϕ				
						Y=	λ				
						X=	ϕ				
						Y=	λ				
						X=	ϕ				
						Y=	λ				
						X=	ϕ				
						Y=	λ				
COMPUTED BY	A. C. Rauck, Jr.				DATE	COMPUTATION CHECKED BY		D. Butler		DATE	2/28/75
LISTED BY					DATE	LISTING CHECKED BY				DATE	
HAND PLOTTING BY					DATE	HAND PLOTTING CHECKED BY				DATE	

COMPILATION REPORT

TP-00779

31. DELINEATION:

Interior delineation was by the Wild B-8 stereoplotter using 1:30,000 scale color photography. Mean high water and MLLW lines were compiled graphically from tide coordinated infrared ratios, controlled by instrument dropped pass points.

32. CONTROL:

See Photogrammetric Plot Report, dated Jan. 1975.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated by office interpretation of the photographs.

The mean high water line and mean lower low water line were compiled from the tide coordinated infrared ratioed photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion of landmarks and aids in the area.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See Form 76-36b, item #5 concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle Point Mugu, California, dated 1949 Photo revised 1967, 1:24,000 scale.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Charts, 18304, scale 1:50,000, 12th edition, dated February 2, 1974 and 18720, scale 1:232,188, 17th edition, dated September 14, 1974.

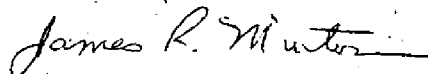
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

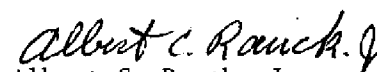
None.

Submitted by:



James R. Minton
Cartographic Technician
01/22/76

Approved:



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

December 20, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7404 (Point Vicente to Port Hueneme, California)

TP-00779

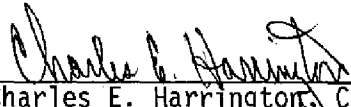
Calleguas Creek

Mugu Lagoon

Laguna Point

Pacific Ocean

Approved by:


Charles E. Harrington, C3x8
Chief Geographer

FORM C&GS-1002
(9-66)U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-P-00779

1. PROJECTION AND GRIDS ALS	2. TITLE ALS	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ALS	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA	7. PHOTO HYDRO STATIONS NA	
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT ALS	11. DETAIL POINTS ALS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ALS	13. LOW-WATER LINE ALS	14. ROCKS, SHOALS, ETC. ALS	15. BRIDGES ALS
16. AIDS TO NAVIGATION ALS	17. LANDMARKS ALS	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
PHYSICAL FEATURES			
20. WATER FEATURES ALS	21. NATURAL GROUND COVER NA		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES ALS
CULTURAL FEATURES			
27. ROADS ALS	28. BUILDINGS ALS	29. RAILROADS ALS	30. OTHER CULTURAL FEATURES ALS
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS	34. JUNCTIONS ALS		35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS ALS
40. REVIEWER <i>A. L. Shands</i> A. L. Shands 3/18/76		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER <i>J. Roderick</i> J. Roderick L. O. Neterer, Jr. 7/20/77 10/7/77		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS <i>See Form 76-36c, items 3 & 8</i> See Form 76-36c, items 3 & 8			

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey ... FIELD EDIT

Job No. ... CM-7404 Map No.

Classification No. Edition No.

LOCALITY

State ... CALIFORNIA

General Locality ... SOUTHERN CALIFORNIA

Locality ... PT. MUGU, PORT HUENEME, AND

..... CHANNEL ISLANDS HARBOR

1976 TO 1976

REGISTRY IN ARCHIVES

DATE

FIELD EDIT

PT. MUGU, PORT HUENEME, AND CHANNEL ISLANDS HARBOR

JOB CM-7404

OPR-411-RA-76

MANUSCRIPT NO. TP-00777, 00780; 1:10,000

TP-00778; 1:5000

J.P. RANDALL, CAPT., NOAA
COMMANDING OFFICER

Introduction and Methods

Field Edit for Port Hueneme, Channel Islands Harbor, and Pt. Mugu, JOB CM-7404, OPR-411-RA-76, commenced on November 1, 1976, and was completed on December 2, 1976. Two field units performed the majority of all work. The largest portion of shoreline verification, location of dangers to navigation, and photo signal location work was accomplished by walking the shoreline. The remainder was performed from small boats paralleling the beach. Field edit is complete and thorough for three 1:10,000 scale manuscripts and one 1:5,000 scale manuscript that comprise JOB CM-7404.

Field edit operations began inside Port Hueneme on 1:5000 scale manuscript TP-00778 in order to facilitate commencement of hydrographic survey operations on H-9666. Work on this manuscript then progressed northwest to encompass Channel Islands Harbor and the shoreline between. In addition to shoreline verification and location of dangers to navigation for TP-00778, photo signal location was accomplished to provide position control for the 1:5000 scale visual hydrographic survey of Port Hueneme and Channel Islands Harbor. More discussion on this can be found later in the text.

Concurrent with field edit operations on TP-00778, work was begun at southeastern JOB limits of the 1:10,000 scale manuscript TP-00780. Work progressed northwest to the completion of TP-00780, TP-00779, and TP-00777 to the general area junction with 1:5000 manuscript TP-00778. Finally work shifted to the northwestern JOB limits on TP-00777 and moved southeast to the junction with TP-00778.

In conjunction with shoreline verification, location of dangers to navigation, and photo signal identification, questions from the Master Field Edit Sheets relating to the locations of fixed aids to navigation and landmarks for charts were thoroughly investigated and answered, and are noted on the Masters with cross-referencing.

All deletions, additions, and corrections to the final shoreline appear on the Master Field Edit Sheets and on the processed cronopaque photographs. With the exception of the photo signal location work, the Master Field Edit Sheets are indices of all field edit work carried out. All discrepancies and questions listed on the Master Field Edit Sheets are completely answered on the Master. Proper references are included for each question answered. SPECIAL VIOLET ink field notes on the Master Field Edit Sheets are items that have been verified by field edit. The photograph number for each item is given as a reference. SPECIAL RED ink was used on the Masters to indicate changes or additions found during field edit. Position or location references are included. Finally, those field notes inked in green are deletions from the manuscripts. References are included. All notes on the Master Field Edit Sheets which are verified on the cronopaque photographs include the

description or an explanation of the feature verified and the photo number on which the item was located. All shoreline information on the smooth boatsheets for H-9666 and H-9667 which was verified by field edit was inked in black. Changes, which include deletions, and/or additions were inked on the smooth boatsheets in SPECIAL RED. Blue, the smooth boatsheet color for unverified items, was not used due to the completeness of verification on all manuscripts.

For a reference of photograph number - T-Sheet Manuscripts, refer to "Separates Following the Text." Height data on rocks was estimated to plus or minus 1 foot, and the bluffs on the manuscripts to plus or minus 10 feet for those judged less than 200 feet, and plus or minus 50 feet for those judged greater than 200 feet. All items are referenced to Greenwich Mean Time.

Adequacy of Compilation

The compilation of the manuscripts for JOB CM-7404 were complete and adequate. Compilation of the MHWL was generally good, although there is a general shift seaward of the MHWL as compared to the office compiled MHWL. Reference the Masters and manuscript sections of the text for more complete information and recommendations. The MLLWL was compiled where possible by hydrographic survey operations and is not discussed in this report. For further information on survey operations, DESCRIPTIVE REPORTS, H-9666 and H-9667 should be consulted.

TP-00777; 1:10,000

Field edit for this manuscript was begun and completed on December 2, 1976. The central region of this manuscript, bounded by the following: North, Lat. $34^{\circ} 10' 30''$ N, South, Lat. $34^{\circ} 08' 00''$ N, East, Lon. $119^{\circ} 11' 30''$ W, and West, Lon. $119^{\circ} 14' 00''$ W is the area covered by manuscript TP-00778, scale 1:5000. Field edit is complete and thorough for TP-00777.

All investigations for non-floating aids to navigation and landmarks for charts have been completed for this manuscript. One landmark is being submitted for charting purposes. Refer to the Master Field Edit Sheet, "Separates Following the Text," Form 76-40, and Horizontal Control Report OPR-411-RA-76 for further information. Questions, discrepancies, and notes to the field editor have been completely answered with proper cross-referencing.

Along the entire shoreline of this manuscript, the MHWL shows a general shift seaward of from 10 to 40 feet over the previously compiled MHWL. Several measurements were made from photogrammetrically recoverable points to the field compiled MHWL. In all other cases the MHWL is believed by the field editor to be the interface between the light and dark sand along the shore. This interface is photogrammetrically identifiable. It is recommended that the field compiled MHWL be accepted for charting purposes.

The seaward extending arms of two canals are located at the following positions:

34° 08' 22" N x 119° 11' 15" W
34° 08' 12" N x 119° 10' 54" W

Their seaward extension is less than that compiled due to drying or flow decrease in the canals. The revised delineation is noted on the Master and is recommended for charting.

The investigations of the charted sewer line and pipe lines at the following positions: 34° 08' 06" N x 119° 10' 55" W and 34° 07' 45" N x 119° 10' 25" W is complete. Nothing was discovered after inspection from both land and sea. The recommendation is that they be deleted.

Marshlands cover the area landward of the sand and gravel shoreline between the easternmost north-south canal and the complex containing the Ormond Beach Stacks which are being submitted as landmarks. The marshes appear to be drying or to be in the process of being drained. Onshore from the marshlands are irrigated fields that are being farmed.

The well compiled just southwest of the Ormond Beach Stacks is in actuality a holding pond with earthen banks forming a levee-like structure around the perimeter. There is a second pond with similar levee-like earthen buildup due west of the filled one. It is recommended that they both be compiled for charting purposes as noted on the Master Field Edit Sheet.

TP-00778

Shoreline verification for this manuscript began at the NW entrance to Port Hueneme Harbor, Lat. 34° 08' 45" N, Lon. 119° 12' 40" W, and progressed clockwise around Port Hueneme Harbor. This was followed by an investigation of Channel Islands Harbor, commencing at Channel Islands Harbor South Jetty Light and continuing counterclockwise to Channel Islands Harbor North Jetty Light. Field work then continued on the beach south of Port Hueneme Harbor. Upon completion of this portion, the investigation then moved north to the north end of Oxnard Beach, at Lat. 34° 10' 15" N, Lon. 119° 14' 00" W and work progressed southeastward to the jetty. The offshore breakwater was examined. Field edit is complete and thorough for TP-00778.

All non-floating aids to navigation and landmarks for charts have been thoroughly researched and discussed. Questions, discrepancies, and notes to the field editor have been completely answered. Refer to Master Field Edit Sheet, Form 76-40, and Horizontal Control Report; OPR-411-RA-76 for further information.

In the west fork of Channel Islands Harbor, Lat. 34° 10' 25" N, Lon. 119° 13' 35" W, eight piers, forming four groups of two's have been

constructed. These piers are similar to piers already shown to be in existence, Lat. $34^{\circ} 10' 15''$ N, Lon. $119^{\circ} 13' 35''$ W. These piers were located by visually comparing photographs with structures present in the field.

Dredging has taken place in the east fork of Channel Islands Harbor, at Lat. $34^{\circ} 10' 20''$ N, Lon. $119^{\circ} 13' 20''$ W. The shoreline was delineated by taking three-point sextant fixes (positions 16-21 in Field Edit Sounding Volume) using geodetic, photogrammetric, and hydrographic signals for control. Geographic positions were computed by using RK-300, UTILITY COMPUTATION PACKAGE, refer to "Separates Following the Text" for further information. A small cement boat ramp has been constructed in this newly dredged area.

Additional piers have been constructed on the east side of Channel Islands Harbor, Lat. $34^{\circ} 10' 05''$ N, Lon. $119^{\circ} 13' 20''$ W. Three mobile boat cranes (cranes having four wheels that enable them to ride along the top of specially constructed piers and pick up small boats using a sling) exist in this area. Reference the Master for further information. It is recommended that they be charted.

Two sandy shoal areas exist along the north jetty of Channel Islands Harbor. The northeast shoal has a white spar buoy with "shoal" in orange printed on it. For further information see DESCRIPTIVE REPORT, H-9666, OPR-411-76.

The surf zone along the beaches in the Port Hueneme and Channel Islands Harbor area has been affected by dredging in the area. This zone has moved inshore along all these beaches.

The width and length of the breakwater offshore of Channel Islands Harbor was determined with respect to the aids to navigation present. One end of a steel tape was attached to the aid to navigation and measurements were made to the tip of the breakwater from a Boston Whaler that moved along the water's edge. See page thirteen of Field Edit Sounding Volume for these actual measurements.

The wreck charted between Channel Islands Harbor and the breakwater was, according to the Channel Islands Harbor Patrol, removed four years ago. RAINIER recommends removal of the wreck from chart. Refer to the Master Field Edit Sheet for further information.

A wreck at Port Hueneme West Jetty Light 3 has been covered with sand and riprap placed around the sand. Thus the wreck now forms a beach area. There is no visible sign of the wreck and it is no danger to navigation. The recommendation is for removal of the wreck from chart.

A tall structural tower of landmark value, inshore of Silver Strand Beach, Lat. $34^{\circ} 09' 13.182''$ N, Lon. $119^{\circ} 12' 56.352''$ W was located

using photo-location methods. The tower height, approximately 120 feet, was determined by visual observation (refer to "Separates," Form 76-40).

The large steel frame tower alongside wharf 4, in Port Hueneme, Lat. $34^{\circ} 09' 07.841''$ N, Lon. $119^{\circ} 12' 35.589''$ W, is of excellent landmark value. Adjacent to this large tower is a smaller steel frame tower, estimated to be seventy feet high. This smaller tower is not of landmark value (refer to "Separates," Form 76-40).

Rotten wood bulkheads exist at the north end of Port Hueneme, Lat. $34^{\circ} 09' 10''$ N, Lon. $119^{\circ} 12' 35''$ W. Many rusted bolts and nails extend from the wood. This wharf is a poor facility for mooring.

The pier faces of Wharves 1, 3, and 4 are approximately 15 feet high. They are constructed of wood and cement pilings.

The pipeline shown to be present on the beach south of Port Hueneme (refer to Master Field Edit Sheet) does not exist. This pipe was probably a part of dredging operations that were taking place at the time the photographs were taken. The recommendation is for removal of this feature from the manuscript.

Six small picnic areas each comprised of three rectangular groups of picnic tables are located in the vicinity of Lat. $34^{\circ} 08' 35''$ N, Lon. $119^{\circ} 11' 45''$ W. The ruins referred to on the Master Field Edit Sheet may have been the supplies necessary for construction of these Picnic areas. It is recommended that the picnic areas be charted.

TP-00779

Field Edit for this manuscript was begun and completed during November, 1976. Work was highly sectionalized due to the frequent inaccessibility of the shoreline on the Pt. Mugu Pacific Missile Test Center. Field edit is complete and thorough for TP-00779.

All investigation for non-floating aids to navigation and landmarks for charts have been completed. One fixed aid and twelve landmarks are being submitted for charting purposes. Reference the Master Field Edit Sheet, "Separates Following the Text", Form 76-40, and Horizontal Control Report; OPR-411-RA-76 for further information. Questions, discrepancies, and notes to the field editor have been completely answered with proper cross-referencing.

Along the majority of the sand and gravel shoreline of this manuscript the MHWL shows a general shift seaward over the previously compiled MHWL. In several cases the MHWL is the seaward edge of the rock and riprap breakwater that comprises sections of the shoreline along the eastern portion of the Pt. Mugu Pacific Missile Test Center. In all other cases, the MHWL is believed by the field editor to be the interface between the light and dark sand along the shore. This interface

is photogrammetrically identifiable. The MHWL on either side of the entrance to Mugu Lagoon shows a more pronounced seaward extent than that previously compiled. The maximum distance across the Lagoon opening at high tide is approximately 90 feet. It is recommended that the field compiled MHWL be accepted for charting purposes.

The location of the Aero Beacon requiring investigation is not in the vicinity of the shoreline as is noted on the manuscript. The beacon's actual location is further inshore, on a building complex near the airfield. Refer to the Master Field Edit Sheet and "Separates," Form 76-40 for further information.

The entire base area, which covers 90% of this manuscript is covered with marsh and scrub lands. The missile complexes, tracking facilities, and other installations are located throughout the marsh and brushlands on concrete and gravel pads that have been built up for these facilities. Descriptive notes pertaining to the marshland features and their boundaries have been made on the Master Field Edit Sheet and corresponding cronapaque photographs. Refer to them for more complete information.

The object located off the western tip of the entrance to Mugu Lagoon is the ribbing of a small wreck. It was positioned by two fixes during hydrographic survey operations. Refer to DESCRIPTIVE REPORT; H-9667 for further information. The recommendation is that it be charted as described in the previously mentioned report.

The entrance to Mugu Lagoon is shallow and dangerous due to shifting sand bars and heavy surf off the mouth. Transit should be attempted only at high tide and with low surf. The lagoon itself shows little change though some drying of the surrounding marshes was noted during field edit. Small boats can be operated within the lagoon. The lagoon should be charted as compiled on the manuscript.

TP-00780; 1:10,000

Field edit for this manuscript was begun in early November, 1976 and completed by early December, 1976. Work began at the southeast manuscript limit and progressed northwest to the junction with TP-00779. Field edit is complete and thorough for TP-00780.

All investigations for non-floating aids to navigation and landmarks for charts have been completed for this manuscript. Seven landmarks are being submitted for charting purposes. Refer to the Master Field Edit Sheet, "Separates Following the Text", Form 76-40, and Horizontal Control Report; OPR-411-RA-76 for further information. Questions, discrepancies, and notes to the field editor have been completely answered with proper cross referencing.

The extent of Mugu Lagoon on this manuscript shows little variation

from that previously compiled. There is some drying of the surrounding marshlands but it is not extensive. The recommendation is that the lagoon be charted as previously compiled.

The region centered around the following position: $34^{\circ} 05' 30''$ N, $119^{\circ} 04' 00''$ W is the rifle range for the Pt. Mugu Pacific Missile Test Center. The region seaward of the cement backstop with sand buildup is dangerous due to the possibility of stray bullets. Seaward of the quonset hut that serves as the headquarters is a large sign that reads "DANGER LIVE FIRE". This sign is visible from the nearby waters, and it is recommended that it be charted for completeness.

The rock ledge shoreline compiled from Pt. Mugu east around a small cove to the next point in actuality exists only around Pt. Mugu.

East of this point the shoreline is characterized by smaller rocks, sand, and gravel. There are numerous rocks baring, awash, and submerged off each point. All is noted on the Master Field Edit Sheet and referenced to the appropriate cronapaque photographs. Refer to them for more complete information.

The massive sand buildup, centered at the following position; $34^{\circ} 04.5'$ N x $119^{\circ} 01.2'$ W, exists and is visually prominent from seaward. Its area is too large to give one precise geographic position. The term "SLIDE" used on the office compiled manuscript does not seem to be correct in describing the actual physical setting. The sand buildup appears to be caused by the depositing of the sand against the rock outcrops and bluff behind and above, by winds from off the ocean. It is recommended that this feature be charted as compiled on the final manuscript, and that the name of the feature be changed to "PROMINENT SAND DUNE".

The small building-like structure located at position; $34^{\circ} 04' 19''$ N x $119^{\circ} 00' 49''$ W is in actuality an abandoned bridge. It is partially overgrown with scrub growth and run over a now dried creek bed that appears to be used as a hiking trail. This area on both sides of the Pacific Coast Highway is a park complex. Five permanent buildings are noted on the manuscript and are recommended for charting, along with the previously mentioned features noted on the Master Field Edit Sheet.

Two submerged rocks are compiled at the following positions:

$34^{\circ} 04' 15''$ N x $119^{\circ} 01' 00''$ W
 $34^{\circ} 04' 02''$ N x $119^{\circ} 00' 37''$ W

Neither of the rocks were visible on the photographs nor were they seen upon inspection of their surroundings from shore. This region is out of the area for RAINIER hydrographic survey operations as defined by PROJECT INSTRUCTIONS; OPR-411-RA-76. Information on soundings and possible dangers to navigation in this area should be contained in the

records for survey operations by the NOAA Ship FAIRWEATHER, FA-10-5-76, H-9600, OPR-411-FA-76. It is recommended that their records be consulted.

Photo Identified Signals

As an integral part of field edit operations for JOB CM-7404, Manuscript TP-00778, scale 1:5000, signals for hydrographic survey operations were identified and photogrammetrically located. The area covered encompasses Port Hueneme and Channel Islands Harbor, the area covered by hydrographic survey RA-5-3-76, H-9666, OPR-411-RA-76. A separate photo signal film ozalid for manuscript TP-00778 is being submitted as a part of the field edit data package. Annotated by every signal on the ozalid are the corresponding number on the Master Station List and the photograph number for each ray used in positioning. Photographs were chosen to provide the best possible intersection for at least 3 positioning rays for every signal. Field computations for each photo identified signal are contained in the PHOTO SIGNAL COMPUTATIONS section of the "Separates Following the Text". Information is included such as : The meters forward and backward that were scaled, conversion to seconds, forward and backward latitude and longitude computations, and the final geographic position computation taken from the mean of the forward and backward positions. The photo Signal Film Ozalid plus Photo Signal Computations contains all necessary information for the verification of photogrammetrically located signals. Reference the "Separates," Master Station List and Photo Signal Computations for further information.

Additional Information

RAINIER personnel obtained numerous geographic positions and geodetic information in order to expand the control networks for hydrographic survey operations and for location of fixed aids to navigation and objects of landmark value from the following source:

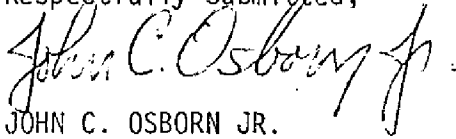
PT. MUGU PACIFIC MISSILE TEST CENTER
 GEOPHYSICS BRANCH
 GEODESY GROUP
 c/o MR. WARREN KLEMZ

Employees of this group have had previous experience in, and/or dealings with, the National Geodetic Survey, and all geodetic position information supplied by them meets or exceeds N.O.S., N.G.S. Third Order, Class I standards for accuracy. It is recommended that all geodetic information obtained from PT. MUGU, PMTC, GEOPHYSICS BRANCH, GEODESY GROUP that was used to assist and supplement RAINIER Horizontal Control operations be accepted as conforming to N.O.S. standards. Further, it is recommended that all non-floating aids to navigation and landmarks for charts positioned by information obtained from this group be accepted for charting purposes. Refer to HORIZONTAL CONTROL REPORT; OPR-411-RA-76 for further information.

Recommendations

Various recommendations are contained in previous sections of the text.
No further recommendations deemed necessary.

Respectfully Submitted,



JOHN C. OSBORN JR.
LTJG, NOAA

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TYPE OF ACTION	RESPONSIBLE PERSONNEL		ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	John G. Osborn, Jr. LTG. NOAA		<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	John C. Osborn, Jr. LTJG. NOAA		FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Joanne Roderick		<input type="checkbox"/> OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' <i>(Consult Photogrammetric Instructions No. 64.)</i>			
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 (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		
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	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.		
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.			

To charts

NOAA FORM 76-40 (8-74)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY	
Replaces C&GS Form 567.		LANDMARKS FOR CHARTS				<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)	
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Div. Norfolk, Va.	STATE California	LOCALITY Point Vicente to Port Hueneume	DATE 1/20/77		
The following objects <input checked="" type="checkbox"/> HAVE <input type="checkbox"/> HAVE NOT been inspected from seaward to determine their value as landmarks.		DATUM NA 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
OPR PROJECT NO. 411	JOB NUMBER CM-7404	SURVEY NUMBER TP-00779					
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	POSITION		LONGITUDE // D.P. Meters	OFFICE	FIELD	
		LATITUDE ° / D.M. Meters	LONGITUDE ° / D.P. Meters				
TANK	Oil storage	34 07	119 09	48.63 1246	74L(I) 1603 3/21/74	F-V-VIS 11/30/76	5120 5202
TANK	Oil storage	34 07	119 09	42.11 1079	74L(I) 1603 3/21/74	F-V-VIS 11/30/76	5120 5202
TANK	Oil storage	34 07	119 09	46.80 1442	74L(I) 1603 3/21/74	F-V-VIS 11/30/76	5120 5202
TANK	Oil storage	34 07	119 09	45.27 1395	74L(I) 1603 3/21/74	F-V-VIS 11/30/76	5120 5202
TANK	Oil storage	34 07	119 09	40.21 1239	74L(I) 1603 3/21/74	F-V-VIS 11/30/76	5120 5202
TANK	Oil storage	34 07	119 09	35.15 1083	74L(I) 1603 3/21/74	F-V-VIS 11/30/76	5120 5202
TOWER	Borsight 853	34 07	119 09	15.531 478.5	74L(I) 1603 3/21/74	F-V-VIS 11/30/76	5120 5202
TOWER	Borsight 850	34 07	119 09	10.882 335.3	74L(I) 1603 3/21/74	F-V-VIS 11/30/76	5120 5202
TOWER	M.E.T., 1965	34 06	119 07	01.396 43.0			5120 5202

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	John C. Osborn, Jr. LTJG. NOAA
POSITIONS DETERMINED AND/OR VERIFIED	John C. Osborn, Jr. LTJG. NOAA Joanne Roderick
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
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 subject. EXAMPLE: 75E(C)6042 8-12-75	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
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	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
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

TYPE OF ACTION	RESPONSIBLE PERSONNEL		ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	John C. Osborn, Jr. LTJG. NOAA		<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	John C. Osborn, Jr. LTJG. NOAA		FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Joanne Roderick		<input type="checkbox"/> OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' <i>(Consult Photogrammetric Instructions No. 64.)</i>			
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 (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	
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field Identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75		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 **PHOTOGAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.			

REVIEW REPORT

TP-00779
SHORELINE

March 6, 1979

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report. Changes recommended to the mean high water line by the field editor were ignored except in the area at the mouth of Mugu Lagoon where extensive changes are indicated. Other changes are not considered extensive. The mean high water line and mean lower low water line were delineated from tide coordinated infrared photography supplied for that purpose and is correct as of the dates of these photographs.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-4816, 1:10,000 scale, dated 1932. Both natural and man made changes have combined to completely alter the areas planimetry. TP-00779 supersedes T-4816 for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Point Mugu, California, 1:24,000 scale, dated 1949 photorevised 1967. Differences in the placement and configuration of the shoreline are significant.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smooth Sheet H-9667 (RA-20-6-76). The pile shown on the smooth sheet at lat. $34^{\circ}06.9'$, long. $119^{\circ}05.8'$ is not visible on the photographs and was not located by the field editor. It is not shown on the Map.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Charts 18740, 1:234,270 scale, 19th edition dated September 28, 1974 and 18725 1:50,000 scale, 16th edition dated December 10, 1977.

A pier and fence shown on the map at lat. $34^{\circ}07.1'$, long. $119^{\circ}09.5'$ are not shown on the chart. The existence of these features was verified by the field editor.

The AERO RADIO BEACON charted at lat. $34^{\circ}05.4'$, long. $119^{\circ}08.0'$ is not visible on the photography and no field position is available. The charted position should be carried forward.

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. L. Shands

A. L. Shands
Final Reviewer

Approved for forwarding:

Albert C. Rauch, Jr.

Chief, Photogrammetric Branch, AMC

Approved *HW*

John D. Perraw, Jr.

Chief, Photogrammetric Branch

Jan [Signature]

Chief, Coastal Mapping Division

16
PROJECT CM-7404 MATERIALS ON FILE

FEDERAL RECORDS CENTER

Control Station Identification Cards
Field Edit Photographs
Bridging Photographs
Job Completion Report

BUREAU ARCHIVES

Registered Copy of Each Map
Descriptive Report of Each Map

GEODESY

Geodetic Records

MARINE CHART DIVISION

Chart Maintenance Print for Each Map
Forms 76-40

OFFICE OF GEOGRAPHER

Geographic Names Standards

REPRODUCTION DIVISION

Film Copy of Each Map

