

TP-00401

TP-00401

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. PH-7107 Map No. TP-00401  
Classification No. Final Edition No. 1  
Field Edited Map

### LOCALITY

State California  
General Locality Dana Point to Point Vicente  
Locality Outer Harbor

1972 TO 1975

### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.					
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">           TYPE OF SURVEY  <input checked="" type="checkbox"/> ORIGINAL  <input type="checkbox"/> RESURVEY  <input type="checkbox"/> REVISED         </td> <td style="width: 50%;">           SURVEY TP. 00401             MAP EDITION NO. (1)             MAP CLASS Final             JOB PH. 7107         </td> </tr> </table>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. 00401  MAP EDITION NO. (1)  MAP CLASS Final  JOB PH. 7107		
TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. 00401  MAP EDITION NO. (1)  MAP CLASS Final  JOB PH. 7107						
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> <b>LAST PRECEDING MAP EDITION</b> </td> </tr> <tr> <td style="width: 50%;">           TYPE OF SURVEY  <input type="checkbox"/> ORIGINAL  <input type="checkbox"/> RESURVEY  <input type="checkbox"/> REVISED         </td> <td style="width: 50%;">           JOB PH. _____            MAP CLASS _____            SURVEY DATES:            19__ TO 19__         </td> </tr> </table>		<b>LAST PRECEDING MAP EDITION</b>		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__
<b>LAST PRECEDING MAP EDITION</b>							
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__						
OFFICER-IN-CHARGE  Jeffrey G. Carlen, Cdr.							
<b>I. INSTRUCTIONS DATED</b>							
<b>1. OFFICE</b>		<b>2. FIELD</b>					
Aerotriangulation Aug 17, 1971 Compilation Nov 5, 1971 Supplement 1 Oct 9, 1973 Amendment 1 Oct 30, 1973 Amendment 1 to Supplement 1 Jan 28, 1974		Preamrking March 1, 1971 Premarking Supplement I Feb. 25, 1972					
<b>II. DATUMS</b>							
<b>1. HORIZONTAL:</b> <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)					
<b>2. VERTICAL:</b> <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)					
<b>3. MAP PROJECTION</b>  Polyconic		<b>4. GRID(S)</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">STATE California</td> <td style="width: 50%;">ZONE 6</td> </tr> </table>		STATE California	ZONE 6		
STATE California	ZONE 6						
<b>5. SCALE</b> 1:5,000		STATE ZONE					
<b>III. HISTORY OF OFFICE OPERATIONS</b>							
<b>OPERATIONS</b>		<b>NAME</b>	<b>DATE</b>				
<b>1. AEROTRIANGULATION</b> BY METHOD: Analytic LANDMARKS AND AIDS BY		I. D. Raborn	Sep 1973				
<b>2. CONTROL AND BRIDGE POINTS</b> PLOTTED BY METHOD: Coradomat CHECKED BY		Allen Allen	Sep 1973 Sep 1973				
<b>3. STEREOSCOPIC INSTRUMENT</b> PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:7,500 CONTOURS BY CHECKED BY		L. O. Neterer R. R. White NA NA	Jul 1974 Aug 1974				
<b>4. MANUSCRIPT DELINEATION</b> PLANIMETRY BY METHOD: Smooth Drafted CHECKED BY SCALE: 1:5,000 CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY		C. Parker F. Margiotta NA NA C. Parker F. Margiotta F. Margiotta	Jul 1974 Aug 1974 Aug 1974 Aug 1974				
<b>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</b> BY		F. Margiotta	Aug 1974				
<b>6. APPLICATION OF FIELD EDIT DATA</b> BY CHECKED BY		J. Minton F. P. Margiotta	May 1976 May 1976				
<b>7. COMPILATION SECTION REVIEW</b> BY		F. P. Margiotta	May 1976				
<b>8. FINAL REVIEW</b> BY		A. L. Shands	Sept 1978				
<b>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</b> BY		A. L. Shands	Nov 1978				
<b>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</b> BY		A. K. Heywood	Feb 1980				
<b>11. MAP REGISTERED - COASTAL SURVEY SECTION</b> BY		E. L. DAUGHERTY	JUN 1980				

TP-00401  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Pacific MERIDIAN 120th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72L(C) 2914 & 2915	3/24/72	15:00	1:15,000	1.2 ft. above MLLW	
72L(C) 3028-3031	3/24/72	08:30	1:15,000	4.8 ft. above MLLW	

REMARKS

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed photographs.

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

There was no mean lower low water line compiled.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

## 5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00394	TP-00402	No survey	TP-00400

REMARKS

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

TP-00401

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. B. Melby	Mar 1972
2. HORIZONTAL CONTROL	RECOVERED BY R. B. Melby	Mar 1972
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE BY	
	<input type="checkbox"/> SPECIFIC NAMES ONLY	
	<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY 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)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

None



TP-00401

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	M. Fleming, CDR Davidson	Apr 1975
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 (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None R. Hopkins, LtCdr. Apr 1975
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	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED  
None2. VERTICAL CONTROL IDENTIFIED  
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 ☒ NONE6. 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 with Field Edit Report 1-List Abstract of Fix Geographic Positions.

TP-00401

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Jul 1974	Class III manuscript Superseded	10/11/74	9/30/74
Field edit applied. Compilation complete.	Jul 1975	Class I manuscript	6/7/76	
Final Review	Sept 1978	Final	Nov 1978	

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		5/24/76	Aids to be charted.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: May 24, 19763. ☐ 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~~ <sup>76-40</sup> SUBMITTED BY FIELD PARTIES.  
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

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

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

**NOTE 9**

Navigation regulations are published in Chapter 2, Coast Pilot 7, or subsequent reissues, Supplements and Add'l Notices to Mariners. Copies of the regulations may be obtained at the office of the District Engineer, Corps of Engineers in Los Angeles, Calif.

Anchorages Regulations may be obtained at the office of the Commander, 11th Coast Guard District, San Francisco, Calif.

1500-2200

Before setting numbers shown with area designation

NOTE C  
SUNSHINE TRANSIT 14MTS

Times of submerging transits will be published in the  
Eleventh Coast Guard District (Long Beach, California)  
Local Notice to Mariners. Ships and crafts are requested  
not to tow submerged objects across transiting areas.

**CAUTION**

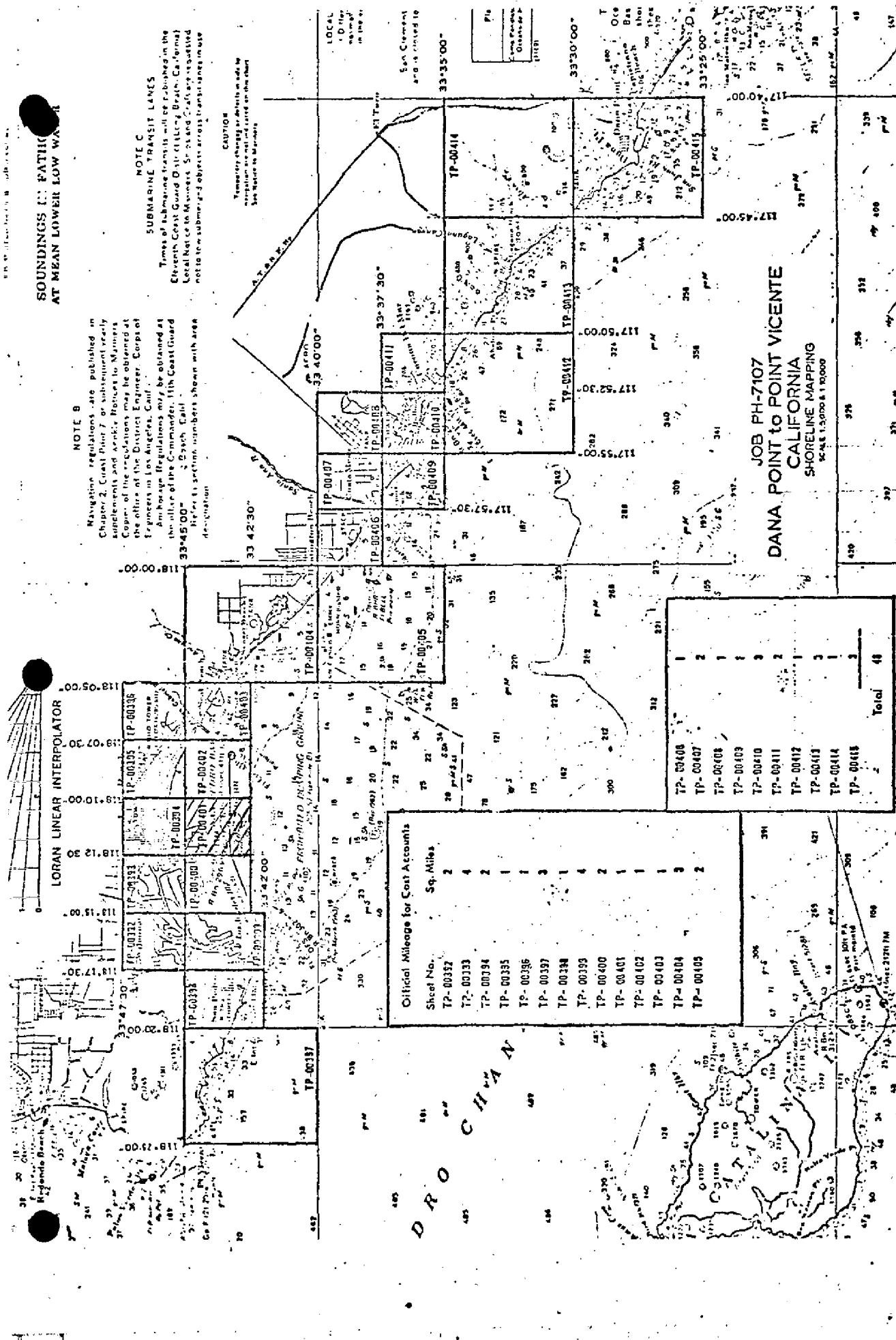
JOB PH-7107  
DANA POINT to POINT VICENTE  
CALIFORNIA  
SHORELINE MAPPING

SCALE 1.50000 to 10.0000

Official Mileage for Cost Accounts

Sheet No.	Sq. Miles
P-00352	2
P-00353	4
P-00354	2
P-00355	1
P-00356	1
P-00357	3
P-00358	1
P-00359	4
P-00400	2
P-00401	1
P-00402	1
P-00403	1
P-00404	3
P-00405	2

TP-00408	1
TP-00407	2
TP-00408	1
TP-00403	3
TP-00410	3
TP-00411	2
TP-00412	1
TP-00413	3
TP-00414	1
TP-00415	3
<b>Total</b>	<b>48</b>





## SUMMARY TO ACCOMPANY

TP-00392 through TP-00403

Maps included in this summary comprise the northern portion of Project PH-7107. Each of them is 1:5,000 scale with the exception of TP-00392<sup>7</sup> which is 1:10,000 scale. They cover the coast of California from Anaheim Bay to Point Vicente. Each is a standard shoreline map, the purpose of which is to serve as support for contemporary hydrographic operations conducted in the area and to provide up-to-date shoreline for nautical chart construction.

The area is heavily populated with an accompanying high incidence of marine construction. Several major changes have occurred along the shoreline during the life of this survey due to construction.

Field operations prior to delineation consisted of the recovery and identification of horizontal control used for bridging and, also, leveling operations conducted in connection with the tide coordinated infrared photography which was used to delineate the mean lower low water line.

Bridging was done in the Rockville Office by analytic triangulation methods in September, 1973. Ratios were determined and ordered at that time.

Compilation was by Wild B-8 instrument method at the Atlantic Marine Center. Field edit was performed during the spring of 1975 and 1976. Edit data was applied to the maps at the Atlantic Marine Center.

Final Review was performed at the Atlantic Marine Center during the fall of 1978. The original base maps and all pertinent data was forwarded to the Rockville Office for reproduction and final registration.

## FIELD INSPECTION

Field work prior to compilation was limited to the recovery and identification of horizontal and vertical control for use in the bridge and coordination of mean lower low water tide elevation. There was no clarification of photographic details.

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PHOTOGRAMMETRIC PLOT REPORT  
Part 2  
Dana Point to Point Vicente  
California  
Job PH-7107  
September 1973

21. AREA COVERED

The area covered by this report is along the west coast of California. This area is covered by one 1:10,000 scale sheet TP-00397 and eleven 1:5,000 scale sheets TP-00392 thru TP-00396 and TP-00398 thru TP-00403.

22. METHOD

Two strips of 1:30,000 scale color photography were bridged by analytic aerotriangulation methods. Sketch #1 shows the flight line of the photography and the placement of the control used in this adjustment. The two strips were controlled by field identified control paneled in 1972. Old control, which was office identified, was floated for checks. Ties were made between strips five and six. Strip number five was adjusted using 3 horizontal stations as control with one old station as a check. Strip number six was adjusted using 7 horizontal stations as control with 3 old stations as checks. Compilation points were located between strips #5 and #6 (1:30,000 scale photography) to control the 1:15,000 scale compilation photography, strips 10, 14, 15, 19, 20, and 21. Common points were located between strip 5 and 6 and the hydro support photography (1:15,000), strips 29 and 30, to determine the ratio scale. Sketch #2 shows the flight lines of the compilation and hydro support photography. Common points were located between strip 6 and strips 11 and 12 to determine only the ratio scale.

Difficulty in adjusting the strips occurred in the area of Long Beach Red Band Steel Tank, 1920. Points in this area approached the limits for National Map Accuracy Standards. This is the result of trying to obtain 1:5,000 scale sheets from 1:30,000 scale photography with several models being very weak. (Less than 1/2 model) The lower altitude strips were not bridged because the points for bridging would only be as good as the high altitude bridges. No difficulty is expected in detailing the compilation (1:15,000 scale models) however, if difficulty is encountered in the weak area, there are numerous office identifiable stations which could be used to help set up the models.

One model (Photos 72L2894, 72L2895) was set in the B-8. The four compilation points were held. Two triangulation stations and one substation were used as checks. All three held within 0.1 mm.

Data for ruling projections were furnished to the Coradomat to be plotted on the California zones 6 and 7 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 as to coverage, overlap and definition.

Respectfully submitted,

*Ivey O Raborn*  
Ivey O. Raborn

Approved and forwarded:

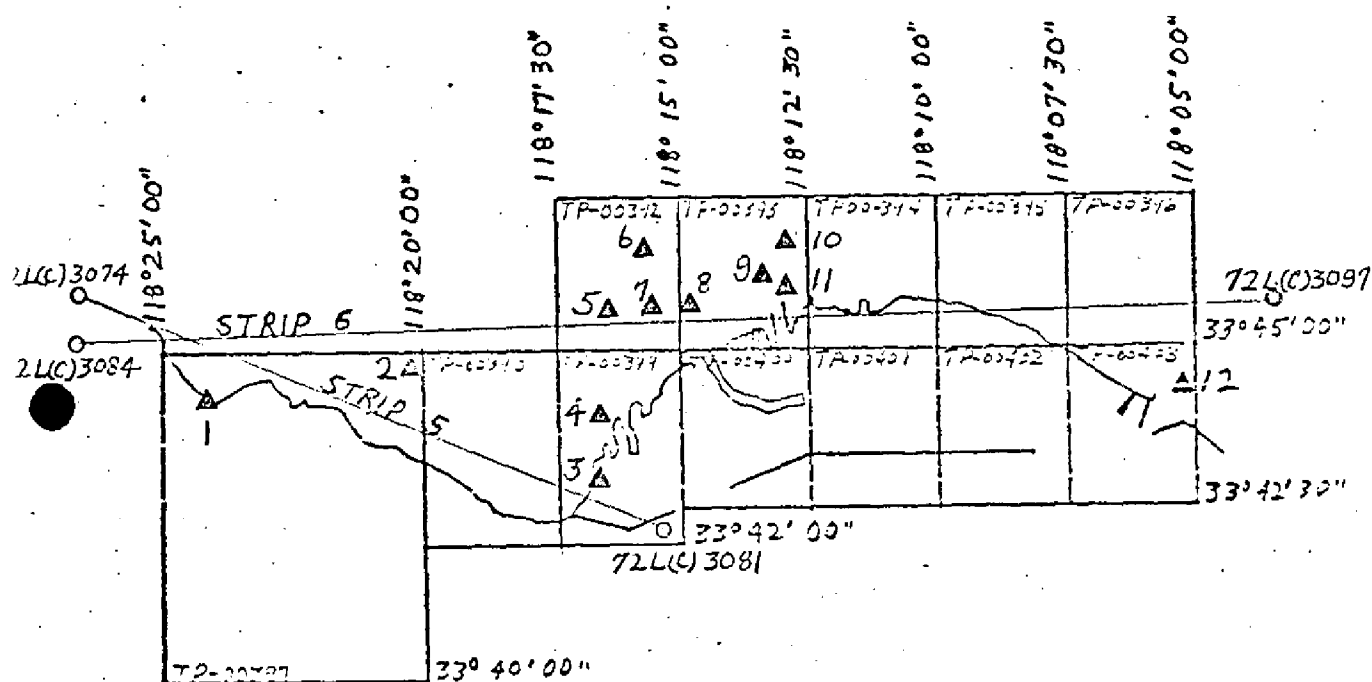
*John D. Perrow, Jr.*  
John D. Perrow, Jr.  
Chief, Aerotriangulation Section

## NOTES TO COMPILER

Strip number 13, which covers the breakwater, cannot be controlled or set in stereo instruments. This area must be compiled by field methods.



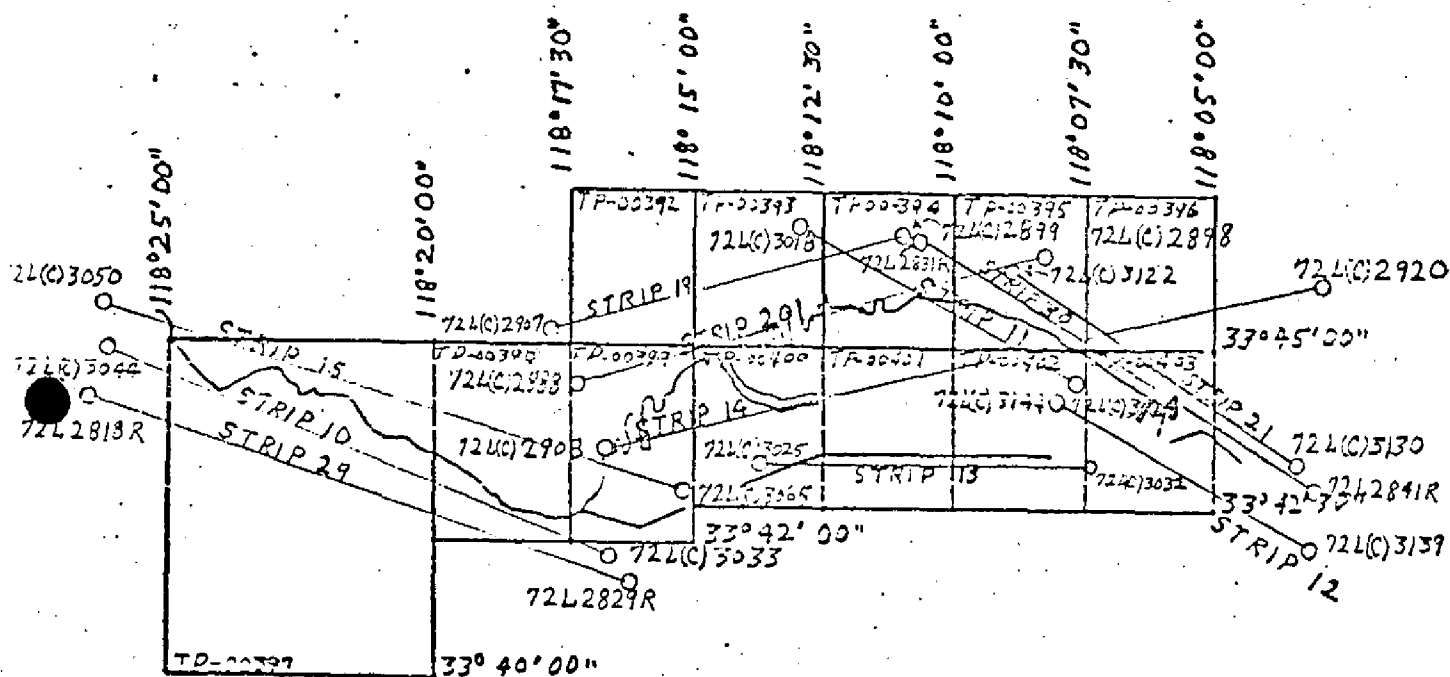
PHOTOGRAMMETRIC PLOT REPORT  
 Part 2  
 Dana Point to Point Vicente  
 California  
 Job PH-7107  
 August 1973



1. Vicente, 1951
2. Verdes, 1963, Sub pt.
3. Old, 1899, Sub pt.
4. San Pedro Cotton Compress Co. Tank, 1933
5. San Pedro Pacific Coast Borax Co. Stack, 1933
6. Wilmington, Smart & Final Co. Warehouse Tank, 1933
7. Medora 1972
8. Wilmington Berth 176-177 Water Tank, 1933
9. Long Beach Red Band Steel Tank, 1920
10. Long Beach Procter & Gamble Water Tank, 1933
11. Long Beach Red Band Steel Tank, 1920, Sub pt.
12. B.M. N 766, 1956, Sub pt.

Sketch #1

PHOTOGRAMMETRIC PLOT REPORT  
 Part 2  
 Dana Point to Point Vicente  
 California  
 Job PH-7107  
 August 1973



Sketch #2

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM		COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY		REMARKS	
					NA	1927	STATE	ZONE	California	6	$\phi$	$\lambda$		Division
TP-00401	PH-7107	LONG BEACH CHANNEL ENTRANCE, EAST LIGHT, 1953	Quad 331181 STA. 2075		X=				$\phi$	33	43	23.495	FORWARD	723.9 (1124.7)
					Y=				$\lambda$	118	10	46.867	BACK	1205.6 (338.2)
		LONG BEACH LIGHT, 1953	Quad 331181 STA. 2076		X=				$\phi$	33	43	23.530		724.9 (1123.7)
					Y=				$\lambda$	118	11	09.371		241.3 (1303.5)
		ANGLE POINT LONG BEACH BREAKWATER, 1949	Quad 331181 STA. 2071		X=				$\phi$	33	43	23.508		724.3 (1124.3)
					Y=				$\lambda$	118	12	19.888		512.0 (1032.7)
					X=				$\phi$					
					Y=				$\lambda$					
					X=				$\phi$					
					Y=				$\lambda$					
					X=				$\phi$					
					Y=				$\lambda$					
					X=				$\phi$					
					Y=				$\lambda$					
					X=				$\phi$					
					Y=				$\lambda$					
					X=				$\phi$					
					Y=				$\lambda$					
					X=				$\phi$					
					Y=				$\lambda$					
					X=				$\phi$					
					Y=				$\lambda$					
COMPUTED BY	A. C. Rauck, Jr.				DATE	10/16/73	COMPUTATION CHECKED BY	F. R. Gustafson					DATE	10/18/73
LISTED BY					DATE		LISTING CHECKED BY						DATE	
HAND PLOTTING BY					DATE		HAND PLOTTING CHECKED BY						DATE	

## COMPILATION REPORT

TP-00401

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter except for the breakwaters which were delineated graphically. Control was adequate.

32. CONTROL:

See the Photogrammetric Plot Report, Part II dated September, 1973.

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:

The shoreline and alongshore details were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS:

Middle Breakwater and Long Beach Breakwater were compiled graphically. The quality and coverage of the photography proved adequate.

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 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, Long Beach, CA, scale 1:24,000, dated 1964.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with National Ocean Survey Chart 5147, 17th edition, dated May 22, 1971, scale 1:24,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Albert C. Rauck, Jr. FOR.*  
Charles Parker  
Cartographic Technician  
July 23, 1974

Approved:

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

June 16, 1978

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-7107, Dana Point to Point Vicente, California

TP-00401

Basin Six

Long Beach Channel

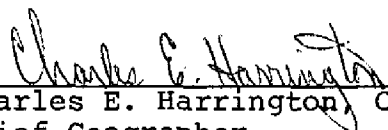
Outer Harbor

Pacific Ocean

San Pedro Bay

Southeast Basin

Approved by:

  
\_\_\_\_\_  
Charles E. Harrington, C3x8  
Chief Geographer

## PHOTOGRAMMETRIC OFFICE REVIEW

TP - 00401

12

1. PROJECTION AND GRIDS FM	2. TITLE FM	3. MANUSCRIPT NUMBERS FM	4. MANUSCRIPT SIZE FM
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY FM	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	10. PHOTOGRAMMETRIC PLOT REPORT FM	11. DETAIL POINTS FM
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE FM	13. LOW-WATER LINE FM	14. ROCKS, SHOALS, ETC. FM	15. BRIDGES FM
16. AIDS TO NAVIGATION FM	17. LANDMARKS FM	18. OTHER ALONGSHORE PHYSICAL FEATURES FM	19. OTHER ALONGSHORE CULTURAL FEATURES FM
PHYSICAL FEATURES			
20. WATER FEATURES FM	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 FM
CULTURAL FEATURES			
27. ROADS FM	28. BUILDINGS FM	29. RAILROADS FM	30. OTHER CULTURAL FEATURES FM
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES FM	34. JUNCTIONS FM		35. LEGIBILITY OF THE MANUSCRIPT FM
36. DISCREPANCY OVERLAY FM	37. DESCRIPTIVE REPORT FM	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS FM
40. REVIEWER <i>Frank Margiotta</i> Frank Margiotta 8/2/74		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.			
COMPILED BY <i>C. Parker</i> C. Parker 7/75		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
Reviewer: A.L. Shands 10/75 <i>A.L. Shands</i>			
43. REMARKS See Form 76-36C, Item 8, Field Edit Operations.			

## FIELD EDIT REPORT

## Long Beach and Los Angeles Harbor

Field edit was completed by DAVIDSON during the month of April 1975 on the following seven manuscripts:

TP 00392	TP 00399
TP 00393	TP 00400
TP 00394	TP 00401
	TP 00402

Field edit should be considered complete on these sheets with the exception of a small area on TP 00399 outside the Los Angeles Breakwater near Point Fermin. Heavy weather precluded proper verification of the ledge shown on the manuscript. The FAIRWEATHER is scheduled to conduct hydrography in that area in the fall of 1975 and plans to delineate this ledge using hydrographic methods. The office compilation of these manuscripts is very good. All questions have been answered and changes are shown in purple ink on the discrepancy ozalids and photographs.

Prior to conducting the field edit, DAVIDSON located many of the important landmarks and navigation aids within the harbor to 3rd order geodetic standards. The harbor area has experienced some horizontal shifting in recent years caused by the depletion of the underlying oil fields. Movements of as much as 3 meters were found. A copy of this report along with completed forms 76-40 giving new positions is included in the appendix. Many of the landmarks located by geodetic means were also listed on the forms 76-40 originated by AMC. References are noted on AMC's forms. In general, the photogrammetrically derived positions agreed quite well with DAVIDSON's horizontal control work.

Field Inspection

The photographs and discrepancy ozalids were taken into the field for verification. Our success at photo identification was poor, partly because of the inexperience of the officer conducting the field inspection and partly because pass points on the photographs obliterated many of the objects to be identified. Most positions were located by three point sextant fix with check angle. G.P.'s of both the fix and check fix were computed on the PDP 8e computer using the geodetic resection program RK-410. A listing of these verified G.P.s by fix number is included in the appendix. Each G.P. listed has been double checked and should be considered accurate. An abstract, by fix number, of the raw field data is also included for reference. It should be noted that not all the fixes listed apply to the field edit of these seven manuscripts. This list is a compilation of field edit fixes and other fixes relating to OPR-511 Chart Adequacy Survey field work - much of which overlap.



Many of the question asked of the field editor involved locating the shore ends of cable and pipe line crossings. In many cases, these shore ends were not visible because piers or other structures hid them. Those that could be located were. A manuscript was obtained from the Los Angeles Harbor Commission showing all utility and pipeline crossings in the Los Angeles half of the harbor. It is included with the data. It is recommended that the Long Beach Port authorities be contacted for a similar manuscript of the Long Beach half of the harbor.

Submitted

*R. D. Hopkins*  
R. D. HOPKINS  
LCDR, NOAA

Approved

*R. D. Hopkins*  
*for* M. H. FLEMING  
CDR, NOAA

## FIELD EDIT REPORT

MAP TP-00401

OUTER HARBOR

MARCH 1976

Field work on map TP-00401 was completed by LTJG Gregory P. Kosinski and ENS George E. Leigh during March, 1976, and consisted of the location of two fixed lights around the southeast basin of Long Beach Harbor. The two lights were located by open traverse from a turning point established near Southeast Basin Light 1. Positions of lights:

Southeast Basin Light 1	Lat 33/44/25.953 ✓	Lon 118/12/19.285 ✓
Southeast Basin Light 3	Lat 33/44/38.028 ✓	Lon 118/11/53.745 ✓

The pier upon which Southeast Basin Light 3 rests was measured, as was the extent of the riprap area that extends west from that pier. Please refer to the sketches attached to the ozalid.

It is recommended that the map be revised in accordance with the notes and sketches on the ozalid. Refer to Horizontal Control Report, OPR-411-FA-76, for details of the field work.

Respectfully submitted:

*Gregory P. Kosinski*

Gregory P. Kosinski, LTJG, NOAA



Replaces C&amp;GS Form 567.

## NONFLOATING AIDS

## FOR CHARTS

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

## ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY  
☐ GEODETIC PARTY  
☐ PHOTO FIELD PARTY  
☒ COMPILATION ACTIVITY  
☐ FINAL REVIEWER  
☐ QUALITY CONTROL & REVIEW GRP.  
☐ COAST PILOT BRANCH
- (See reverse for responsible personnel)

REPORTING UNIT  
(If field party, ship or office)Coastal Mapping Div.  
A.M.C. Norfolk, Va.

STATE

California

LOCALITY

Dana Point to  
Point Vicente

DATE

July, 1975  
May, 1976The following objects HAVE ☒ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

OPR PROJECT NO.

411

JOB NUMBER

Ph-7107

SURVEY NUMBER

TP-00401

DATUM

N.A. 1927

METHOD AND DATE OF LOCATION  
(See instructions on reverse side)

FIELD

CHARTS  
AFFECTEDDESCRIPTION  
(Record reason for deletion of landmark or aid to navigation.  
Show triangulation station names, where applicable, in parentheses)CHARTING  
NAME

LATITUDE

D.M. Meters

LONGITUDE

D.P. Meters

\*\*

LIGHT

(Long Beach Light, 1953)

33 43

23.518  
724.89

118 11

09.378  
241.1372L(C) 3029  
Mar. 24, 1972F-3-6-L  
April, 197518302  
18323  
18337

\*\*

LIGHT

Long Beach Channel Entrance Light 2  
(Long Beach Channel Entrance East Light  
1953)

33 43

23.514  
723.9

118 11

46.867  
1206.2F-3-6-L  
April, 1975F-3-6-L  
April, 197518302  
18323  
18337

\*\*

LIGHT

Pier J, Light J

33 44

18.852  
580.8

118 11

07.159  
184.3F-3-6-L  
April, 1975F-3-6-L  
April, 197518302  
18323  
18337

\*\*

LIGHT

Long Beach Pier J, Light 4

33 44

19.110  
588.8

118 12

14.001  
360.4F-3-6-L  
April, 1975F-3-6-L  
April, 197518302  
18323  
18337

\*\*

LIGHT

Long Beach Pier F, Light F

33 44

25.212  
776.8

118 12

20.756  
534.3F-2-6-L  
April, 1975F-2-6-L  
April, 197518302  
18323  
18337

\*\*

LIGHT

Southeast Basin Light 1

33 44

25.953  
799.6

118 12

19.285  
496.4F-2-6-L  
March, 1976F-2-6-L  
March, 197618749  
18751

\*\*

LIGHT

Southeast Basin Light 3

33 44

38.028  
1171.6

118 11

53.745  
1383.4F-2-6-L  
March, 1976F-2-6-L  
March, 197618749  
18751

\*\* New field positions. 1975 and 1976



REVIEW REPORT  
TP-00401

SHORELINE

September 7, 1978

61. GENERAL STATEMENT:

Field edit for this map was conducted in April, 1975 and March, 1976. The second edit was requested to obtain accurate positions for Southeast Basin Lights "1" and "3".

See Summary, page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smooth Sheets H-9672 (FA-5-3-77) and H-9673 (FA-5-4-77). There are no significant differences.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 18751, 1:12,000 scale, 24th edition, dated March 18, 1978.

Several buildings and sections of some roads shown on the chart do not exist on the photographs. All of these features have been identified on the Chart Maintenance Print forwarded to Marine Charts.

The landmark tower shown on the chart at Pier J is visible on the photography. The field editor stated on the edit ozalid that the tower visible on the photography is not of landmark value. Because of this, the tower is not shown on the map.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instruction 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:

*Bill W. Bann*

*for* Chief, Photogrammetric Branch, AMC

Approved:

*John D. Perrew Jr*

Chief, Photogrammetric Branch

*A. R. H. W. O. R. M.*

Chief, Coastal Mapping Division



### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

Тр 0040/

## 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.

[illegible]