

TP-00403

TP-00403

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-00403  
Classification No. Final Edition No. 1  
Field Edited Map

### LOCALITY

State California  
General Locality Dana Point to Point Vicente  
Locality Seal Beach

19 71 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. <u>00403</u>             MAP EDITION NO. <u>(1)</u>             MAP CLASS <u>Final</u>             JOB <u>PH-7107</u> </td> </tr> </table>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00403</u>  MAP EDITION NO. <u>(1)</u>  MAP CLASS <u>Final</u>  JOB <u>PH-7107</u>		
TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00403</u>  MAP EDITION NO. <u>(1)</u>  MAP CLASS <u>Final</u>  JOB <u>PH-7107</u>						
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Atlantic Marine Center, Norfolk, VA  OFFICER-IN-CHARGE  Jeffrey G. Carlen		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">LAST PRECEDING MAP EDITION</th> </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 <u>PH-</u>            MAP CLASS <u></u>            SURVEY DATES:            19 <u></u> TO 19 <u></u> </td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>
LAST PRECEDING MAP EDITION							
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>						
<b>I. INSTRUCTIONS DATED</b>							
1. OFFICE		2. FIELD					
Aerotriangulation      Aug 17, 1971 Compilation              Nov 05, 1973 Supplement 1              Oct 09, 1973 Amendment 1              Oct 30, 1973 Amend. 1 to Supp. 1      Jan 28, 1974		Premarking              March 1, 1971 Premarking Supplement 1              Feb. 25, 1972					
<b>II. DATUMS</b>							
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  Polyconic		4. GRID(S) STATE                      ZONE California                      6					
5. SCALE 1:5,000		STATE                      ZONE					
<b>III. HISTORY OF OFFICE OPERATIONS</b>							
OPERATIONS		NAME	DATE				
1. AEROTRIANGULATION BY METHOD: Analytic      LANDMARKS AND AIDS BY		I. D. Raborn	Sept 1973				
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat      CHECKED BY		Allen	Sept 1973				
		Allen	Sept 1973				
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION              CHECKED BY		G. Vanderhaven	Nov 1973				
INSTRUMENT: Wild B-8 SCALE: 1:7,500              CONTOURS BY		A. L. Shands	Nov 1973				
		NA					
		NA					
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		G. Vanderhaven	Nov 1973				
METHOD: Smooth drafted CONTOURS BY		A. L. Shands	Dec 1973				
		NA					
		NA					
SCALE: 1:5,000              HYDRO SUPPORT DATA BY		G. Vanderhaven	Nov 1973				
		A. L. Shands	Dec 1973				
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		A. L. Shands	Dec 1973				
6. APPLICATION OF FIELD EDIT DATA BY		D. P. Butler	Jul 1975				
		A. L. Shands	Oct 1975				
7. COMPILATION SECTION REVIEW BY		A. L. Shands	Oct 1975				
8. FINAL REVIEW BY		A. L. Shands	Aug 1978				
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		A. L. Shands	Nov 1978				
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		A. K. Heywood	Feb 1980				
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. L. DAUGHERTY	JUN 1980				

## 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 checked="" 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) 3125 - 3128	3/27/72	07:43	1:15,000	3.8 ft. above MLLW	
*72L(I) 2838 - 2840	3/24/72	12:25	1:15,000	-0.2 ft. of MLLW	
72L(C) 3141 - 3143	3/27/72	07:43	1:15,000	3.5 ft. above MLLW	
71L(C) 1477 - 1478	3/05/71	10:05	1:20,000	0.7 ft. above MLLW	
71L(I) 2231 - 2232	3/07/71		1:30,000	+0.2 ft. of MLLW	

## REMARKS

\*Tide coordinated photography

## 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:

\*The mean lower low water line was compiled from tide coordinated infrared photography listed above.

## 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-00396	*TP-00404	No Survey	TP-00402

## REMARKS

\*See Review Report, item 61.

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

TP-00403

## 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 L. L. Riggers	Mar 1972
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 <input type="checkbox"/> SPECIFIC NAMES ONLY BY <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

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
72L(C) 3096	B.M. N 766, 1956		

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)

2 forms 152



TP-00403  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	CDR R. E. Alderman	Apr 1975
2. HORIZONTAL CONTROL	RECOVERED BY FAIRWEATHER personnel	Apr 1975
	ESTABLISHED BY FAIRWEATHER personnel	Apr 1975
	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 FAIRWEATHER personnel	Apr 1975
	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 LCDR J. A. Sowers	Apr 1975
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

Diagram of Cable and Pipeline for Platform Belmont

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

Map TP-00403 (Field Edit copy); and Field Edit Report, OPR-411-FA-75,  
Map TP-00403

NOAA FORM 76-36D (3-72)	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TP-00403 <b>RECORD OF SURVEY USE</b>
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**I. MANUSCRIPT COPIES**

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit.	Dec 1973	Class III manuscript	8/2/74	8/2/74
Field edit applied. Compilation complete	Jul 1975	Class I manuscript	6/7/76	
Final Review	Aug 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
1		5/24/76	Landmarks to be charted
1		5/24/76	Landmarks to be deleted.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: May 24, 1976
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. ~~XXX~~ <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	
	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 TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <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 TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <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	

# SOUNDINGS IN FATHOMS AT MEAN LOWER LOW WATER

## NOTE B

Navigation regulations are published in Chapter 2, Coast Pilot 7, or subsequent yearly supplements and weekly Notices to Mariners. Copies of the regulations may be obtained at the office of the District Engineer, Coast of Engineers in Los Angeles, Calif. For further regulations may be obtained at the office of the Commander, 11th Coast Guard District, San Francisco, Calif. Refer to section numbers shown with area designation.

## NOTE C

SUBMARINE TRANSIT LINES  
Times of submarine transits will be furnished in the Eleventh Coast District (11th Coast District) Local Notice to Mariners. Such notices are requested not to be submerged objects across transits in use.

CAUTION  
Temporary changes in depth or soundings are not indicated on this chart.  
See Notice to Mariners

LOCAL  
Differ  
normal  
in the  
to

D R O C H A N

PL  
Cape Point  
Oleander  
11740

San Clement  
and is listed to

## JOB PH-7107 DANA POINT TO POINT VICENTE CALIFORNIA SHORELINE MAPPING SCALE 1:50,000 & 1:100,000

## LORAN LINEAR INTERPOLATOR

## Official Mileage for Cost Accounts

Sheet No.	Sq. Miles
TP-00392	2
TP-00393	4
TP-00394	2
TP-00395	1
TP-00396	1
TP-00397	3
TP-00398	1
TP-00399	4
TP-00400	2
TP-00401	1
TP-00402	1
TP-00403	1
TP-00404	3
TP-00405	2

TP-00406	1
TP-00407	2
TP-00408	1
TP-00409	1
TP-00410	3
TP-00411	2
TP-00412	1
TP-00413	3
TP-00414	1
TP-00415	3
<b>Total</b>	<b>46</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.

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## 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.

## 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:

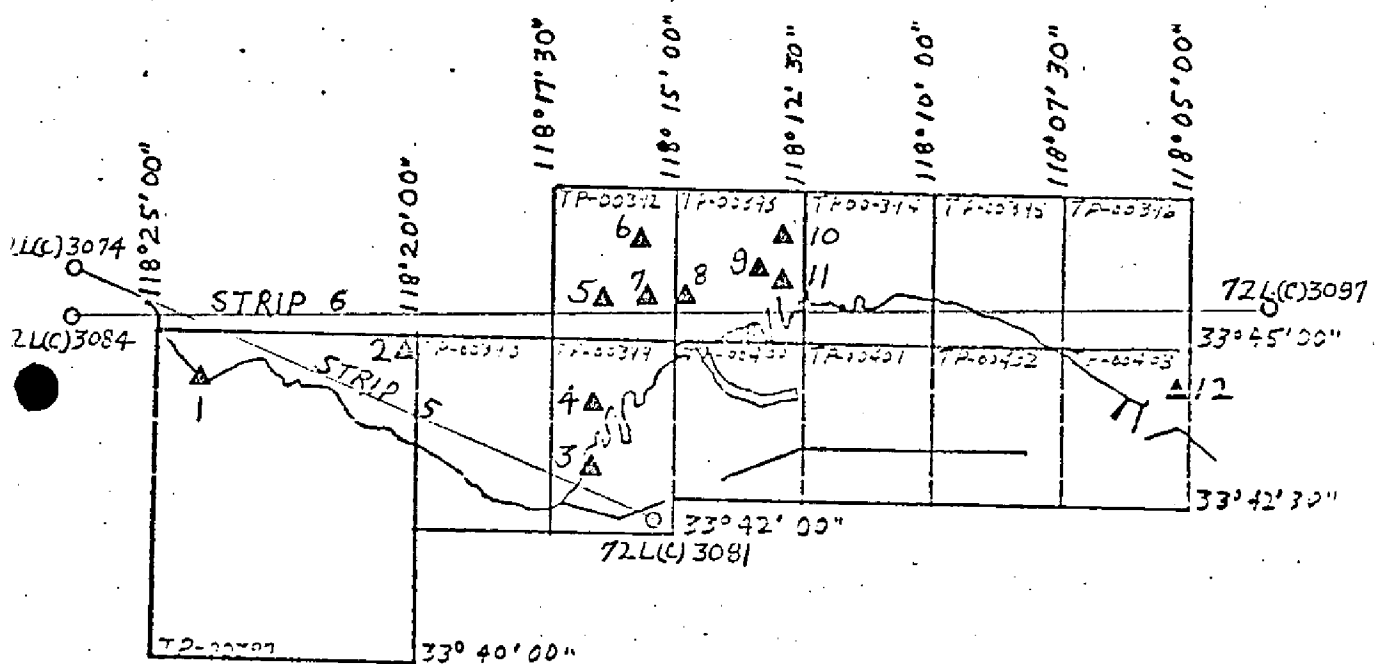
*John D Perrow Jr*  
John D. Perrow, Jr.  
Chief, Aerotriangulation Section

## 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.



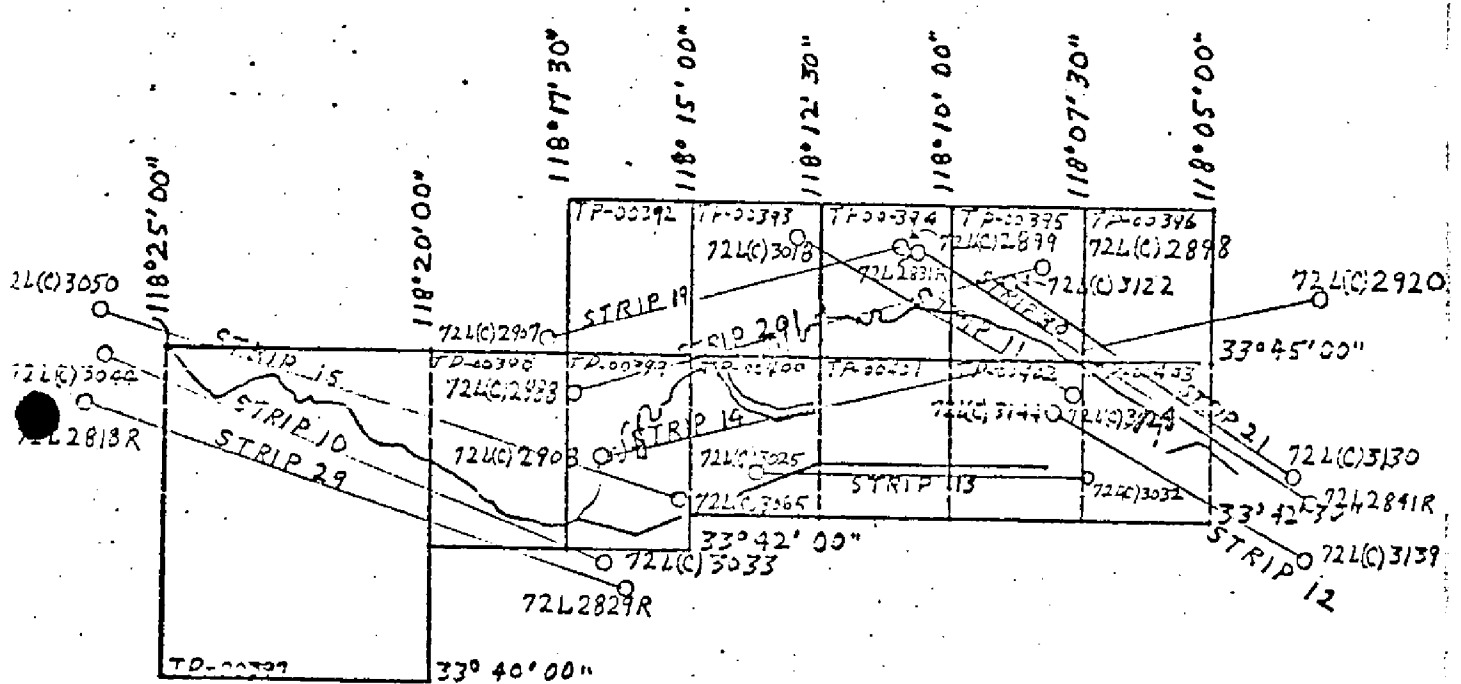
PHOTOGRAMMETRIC PLOT REPORT  
 Part 2  
 Dana Point to Point Vicente  
 California  
 Job PH-7107  
 August 1973



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. TP-00403	JOB NO. PH-7107	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY		
					STATE	ZONE	California	6	$\phi$ LATITUDE	$\lambda$ LONGITUDE	Division, Norfolk, Va.
SEAL BEACH 2, 1937	Quad 331181 STA 2062				X=		$\phi$	33 44	35.616	FORWARD	1097.3 ( 751.3)
					Y=		$\lambda$	118 06	43.193	BACK	1111.8 ( 432.6)
B.M. N 766, 1956	Bridge form 164 pg. 1				X=	1,440,843.47	$\phi$				843.47 1156.53
					Y=	576,936.36	$\lambda$				936.36 1063.64
BRIDGE, 1956	Quad 331181 STA 2008				X=		$\phi$	33 43	52.944		1631.1 ( 217.4)
					Y=		$\lambda$	118 05	07.591		195.4 (1349.2)
SEAL BEACH NAVY DEPOT NORTH WATER TANK, 1956	Quad 331181 STA 2085				X=		$\phi$	33 44	52.115		1605.7 ( 242.9)
					Y=		$\lambda$	118 05	19.935		513.1 (1031.2)
SEAL BEACH NAVY DEPOT RADAR TOWER, 1956	Quad 331181 STA 2084				X=		$\phi$	33 43	50.543		1557.2 ( 291.4)
					Y=		$\lambda$	118 05	08.143		209.6 (1335.0)
					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	

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

## COMPILATION REPORT

TP-00403

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter.

The seaward half of the Anaheim Bay east and west jetties and two offshore platforms were delineated graphically from the offshore color photography. The mean lower low water line was also delineated graphically using the tide controlled infrared photography.

32. CONTROL:

See 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.

The mean lower low water line was delineated graphically from tide coordinated infrared photography.

36. OFFSHORE DETAILS:

Two offshore drilling Islands were delineated graphically from office interpretation of the photographs.

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 Form 76-36B, item #5 <sup>A.L.S.</sup> ~~of the Descriptive Report~~ concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle Seal Beach, CA, scale 1:24,000, dated 1965.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the National Ocean Survey Chart 5148, 17th edition, dated February 24, 1973, scale 1:18,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

G. R. Vanderhaven  
Cartographer  
November 1973

Approved:

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-00403

Alamitos Bay

Anaheim Bay

Long Beach (locality)

Pacific Ocean


San Gabriel River

San Pedro Bay

Seal Beach (locality)

Surfside

Approved by:

  
Charles E. Harrington, C3x8  
Chief Geographer

## PHOTOGRAMMETRIC OFFICE REVIEW

TP - 00403

12

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. NA	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 NA
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 A. L. Shands 12/14/73		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>David Butler</i> David Butler 7/22/75		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.	
Reviewer: A. L. Shands 10/23/75 <i>A. L. Shands</i>			
43. REMARKS See forms 76-36c, item 8, of Field inspection Operations, and items 7 and 8 of Field Edit Operations.			

## FIELD EDIT REPORT

MAP TP-00403

SEAL BEACH, CALIFORNIA

APRIL 1975

Field edit of map TP-00403 was done by Lcdr Joseph A. Sowers during April 1975. Field inspection of the area was done at various stages of the tide by skiff and land vehicle.

METHOD

Photographs and a copy of the field edit ozalid were examined in the field. Photogrammetric techniques were used for location of features in question. The foreshore area was unfouled, requiring no verification of the existence of rocks, reefs, etc. The area of marsh in Anaheim Bay is a designated wildlife refuge with entry prohibited by land or water vehicle. The entire marsh area is unnavigable and delineated with sufficient accuracy as compiled. All times are based on GMT.

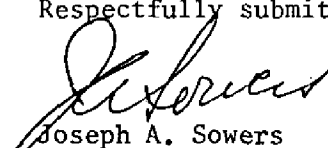
ADEQUACY OF COMPILATION

Compilation of this map is good with the exception of the southern shoreline. Due to seasonal and long term cycle sand movement in this area, the shoreline is not as shown at present. Present configuration of shoreline is shown on boatsheet FA-5-1-75. Exxon Oil Company drawings have been attached to the Field Edit Ozalid as an aid to locating pipelines and cables. Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes and fix information on the ozalid ~~and photographs~~, and then be accepted as an advanced manuscript.

Respectfully submitted:



Joseph A. Sowers  
LCDR, NOAA



[illegible]

Replaces C&amp;GS Form 567.

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NOAA FLEETING CHARTS LANDMARKS FOR CHARTS

<input type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input checked="" type="checkbox"/> TO BE DELETED	REPORTING UNIT <i>(Field Party, Ship or Office)</i> Coastál Mapping Div. A.M.C. Norfolk, Va.	STATE California	LOCALITY Dana Point to Point Vicente	DATE July, 1975	<input type="checkbox"/> PROTECTED PART <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH <i>(See reverse for responsible personnel)</i>
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The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	411	JOB NUMBER	Ph-7107	SURVEY NUMBER	TP-00403	DATUM	N.A.1927	METHOD AND DATE OF LOCATION (See instructions on reverse side)	CHARTS
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[illegible]



NOAA FORM 76-40  
(8-74)

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

(Field Party, Ship or Office)  
Coastal Mapping Div.  
A.M.C. Norfolk, Va.

## STATE

California

## LOCALITY

Dana Point to  
Point Vicente

## DATE

July, 1975

The following objects HAVE ☒ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

OPR PROJECT NO.

411

JOB NUMBER

Ph-7107

SURVEY NUMBER

TP-00403

DATUM

N.A. 1927

## POSITION

## DESCRIPTION

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

## LATITUDE

D.M. Meters

## LONGITUDE

D.P. Meters

## OFFICE

## FIELD

## METHOD AND DATE OF LOCATION

(See instructions on reverse side)

CHARTS  
AFFECTEDCHARTING  
NAME

LIGHT

Anaheim Bay Range Front Light

33 44

12.82  
395

118 05

28.98  
74672L(C) 3127  
March, 1972F-V-Vis.  
April, 19755142  
18323

LIGHT

Anaheim Bay Range Rear Light

33 44

17.59  
542

118 05

24.78  
638

"

"

"

LIGHT

Anaheim Bay West Jetty Light 5

33 43

39.08  
1204

118 06

03.34  
8672E(C) 3142  
March, 1972

"

"

LIGHT

Anaheim Bay East Jetty Light 6

33 43

35.90  
1106

118 05

56.98  
1467

"

"

"

LIGHT

Anaheim Bay Channel Light 9

33 44

04.64  
143

118 05

39.93  
102872L(C) 3127  
March, 1972

"

"

LIGHT

Alamitos Bay West Jetty Light 1

33 44

14.22  
438

118 07

16.16  
41672E(C) 3143  
March, 1972

"

"

LIGHT

Alamitos Bay East Jetty Light 2

33 44

11.26  
348

118 07

09.75  
251

"

"

"

LIGHT

Alamitos Bay Channel Light 3

33 44

43.30  
1334

118 06

56.68  
145972L(C) 3126  
March, 1972

"

"

LIGHT

Alamitos Bay Basin 1 Light 2

33 44

58.97  
1817

118 06

51.27  
1322F-L-Vis  
April, 1975

18749

14c





REVIEW REPORT  
TP-00403

SHORELINE

August 18, 1978

61. GENERAL STATEMENT:

The shoreline bordering the Pacific Ocean and San Pedro Bay is very unstable. It is composed mostly of sand which is deposited and eroded seasonally. This map is joined on the east by Map TP-00404 which was compiled prior to this map from photography flown in March, 1971. Photography for this map was flown in March, 1972. The difference in the position of the outer shoreline on the two sets of photographs is approximately 400 ft.. To affect a junction between the two maps the outer shoreline on the 1971 photography was extended onto map TP-00403 from its eastern limit to Anaheim Bay East Jetty where a common and stable riprap shoreline exist.

The field editor indicated the position of a "Lt (Red)" on the edit ozalid. The compilation office showed the position of the light on the map but did not recognize it as an aid to navigation. It was determined during final review that the position is that of Alamitos Bay Basin 1 Light 2. This light was listed on the 76-40 and labeled on the map during final review.

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 copies of Final Verified Smooth Sheets H-9493 (FA-10-2-75), H-9495 (FA-5-1-75) and H-9592 (FA-5-1-76).

The pier ruins and the wreck shown on Smooth Sheet H-9592 adjacent to Alamitos Bay East Jetty are not visible on the photographs. The field editor did not supply the compilation office with any data on these features.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 18749, 1:18,000 scale (1:9,000 inset), 21st edition, dated March 26, 1977.

The pier and wrecks charted adjacent to Alamito's Bay East Jetty and the moored barge, charted between there and the Municipal Pier are not visible on the photographs. The compilation office received no data on these from the field editor.

## 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:

G. L. Shanks

A. L. Shands  
Final Reviewer

Approved for forwarding:

Bill H. Barn  
for Chief, Photogrammetric Branch, AMC

Approved:

Approved: *John D. Perrew Jr.*  
Chief, Photogrammetric Branch

Chief, Coastal Mapping Division



### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

## INSTRUCTIONS

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

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

[illegible]