

TP-00392

TP-00392

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-00392.....
Classification No. Final Edition No. 1.....
Field Edited Map

LOCALITY

State California.....
General Locality Dana Point to Point Vicente...
Locality ... East Basin Channel.....

1972 TO 1975

REGISTRY IN ARCHIVES

DATE

TYPE OF SURVEY

SURVEY TP. 00392

DESCRIPTIVE REPORT - DATA RECORD

☒ ORIGINAL

MAP EDITION NO. (1)

☐ RESURVEY

MAP CLASS Final

☐ REVISED

JOB PH. 7107

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division, Norfolk, Va.

OFFICER-IN-CHARGE

Jeffrey G. Carlen, CDR

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH. _____

☐ ORIGINAL

MAP CLASS _____

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19 ____ TO 19 ____

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation 8/17/71
Compilation 11/05/71
Supplement 1 10/09/73
Amendment 1 10/30/73
Amendment to Supp. 1 1/28/74

2. FIELD

Premarking 3/1/71
Premarking
Supplement 1 2/25/72

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

☒ MEAN HIGH-WATER
☐ MEAN LOW-WATER
☒ MEAN LOWER LOW-WATER
☐ MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE

California

ZONE

6

5. SCALE

1:5,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	I. D. Raborn	Sep 1973
	LANDMARKS AND AIDS BY	I. D. Raborn	Sep 1973
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	Allen	Sep 1973
	CHECKED BY	Allen	Sep 1973
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:7,500	PLANIMETRY BY	L. Neterer, C. Parker R. White	1/8/74
	CHECKED BY	A. Rauck, A. Shands, R. White	Jan/Aug '74
	CONTOURS BY	NA	
	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION METHOD: Smooth Drafted SCALE: 1:5,000	PLANIMETRY BY	C. Blood & R. White	Aug 1974
	CHECKED BY	F. Margiotto	Sep 1974
	CONTOURS BY	NA	
	CHECKED BY	NA	
HYDRO SUPPORT DATA BY		C. Blood	Aug 1974
CHECKED BY		F. Margiotto	Sep 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		F. Margiotto	Sep 1974
6. APPLICATION OF FIELD EDIT DATA		D. Butler	Jul 1975
CHECKED BY		A. L. Shands	Oct 1975
7. COMPILATION SECTION REVIEW		A. L. Shands	Oct 1975
8. FINAL REVIEW		A. L. Shands	Oct 1978
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		A. L. Shands	Nov 1978
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		E. L. Rolle	Dec 1979
11. MAP REGISTERED - COASTAL SURVEY SECTION		E. L. DAUGHERTY	JUN 1980

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"		TYPES OF PHOTOGRAPHY LEGEND (C) <u>COLOR</u> (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE ZONE Pacific MERIDIAN 120th		☒ STANDARD ☐ DAYLIGHT
TIDE STAGE REFERENCE ☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY						
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE		
72L(C) 2889-2891	3/24/72	14:46	1:15,000	0.8ft. above MLLW		
72L(C) 2903-2906	3/24/72	14:54	1:15,000	0.9 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:

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 No survey	EAST TP-00393	SOUTH TP-00399	WEST No survey
REMARKS			

TP-00392

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 R. B. Melby	Mar 1972
	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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ 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) 3090	MEDORA, 1972		

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 form 152, 1-form 6104 Observations

TP-00392
HISTORY OF FIELD OPERATIONSI. ☐ 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	R. Hopkins R. Hopkins None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ 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		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

1-Blue print Port of Los Angeles, Pipes & Utilities Crossing Channels.

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

Field edit ozalid and Field Edit Report, 2 Forms 76-40 and an Abstract of Fix Geographic Positions. 1-Form 470

NOAA FORM 76-36D
(8-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00392
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.	9/74	Class III manuscript Superceded	10/11/74	9/30/74
Field edit applied. Compilation complete	7/75	Class I manuscript	6/07/76	
Final Review	Oct 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

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 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 ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

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 sailing notices to mariners. Copies of the regulations may be obtained at the office of the District Engineer, Corps of Engineers in Los Angeles, Calif. :
Anchorage regulations may be obtained at the office of the Commander, 11th Coast Guard District, San Diego, Calif.
Reference to section numbers shown with area designation.

NOTE C SUBMARINE TRANSIT LINES

Times of submarine transit will be published in the Eastern Coast Guard District (San Diego, California) Local Notice to Mariners. 5- and 6- and 7- are requested to follow submarine transit times in use.

CAUTION
Temporary changes or depths made in navigation are not indicated on this chart. See Notice to Mariners.

LOCAL
• Dike
• Breaker
• Jetty

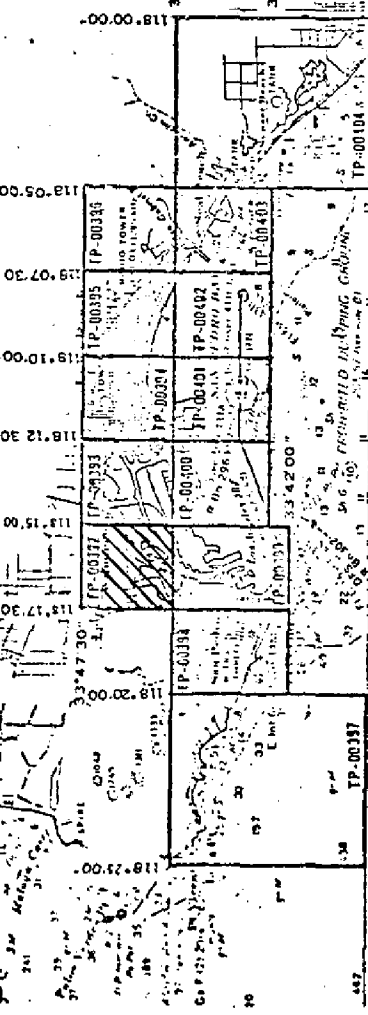
San Clement
and is limited to

File
• Dike
• Breaker
• Jetty
• Obstruction
• Shoal

JOB PH-7107
DANA POINT TO POINT VICENTE
CALIFORNIA
SHORELINE MAPPING
SCALE 1:5000 & 1:6000

67

LORAN LINEAR INTERPOLATOR



Official Mileage for Cost Accounts

Sheet No.	Sq. Miles
TP-00332	2
TP-00333	4
TP-00334	2
TP-00335	1
TP-00336	1
TP-00337	3
TP-00338	1
TP-00339	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	3
TP-00410	2
TP-00411	1
TP-00412	3
TP-00413	1
TP-00414	3
TP-00415	3
Total	48

DRO CHAN

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 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.

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

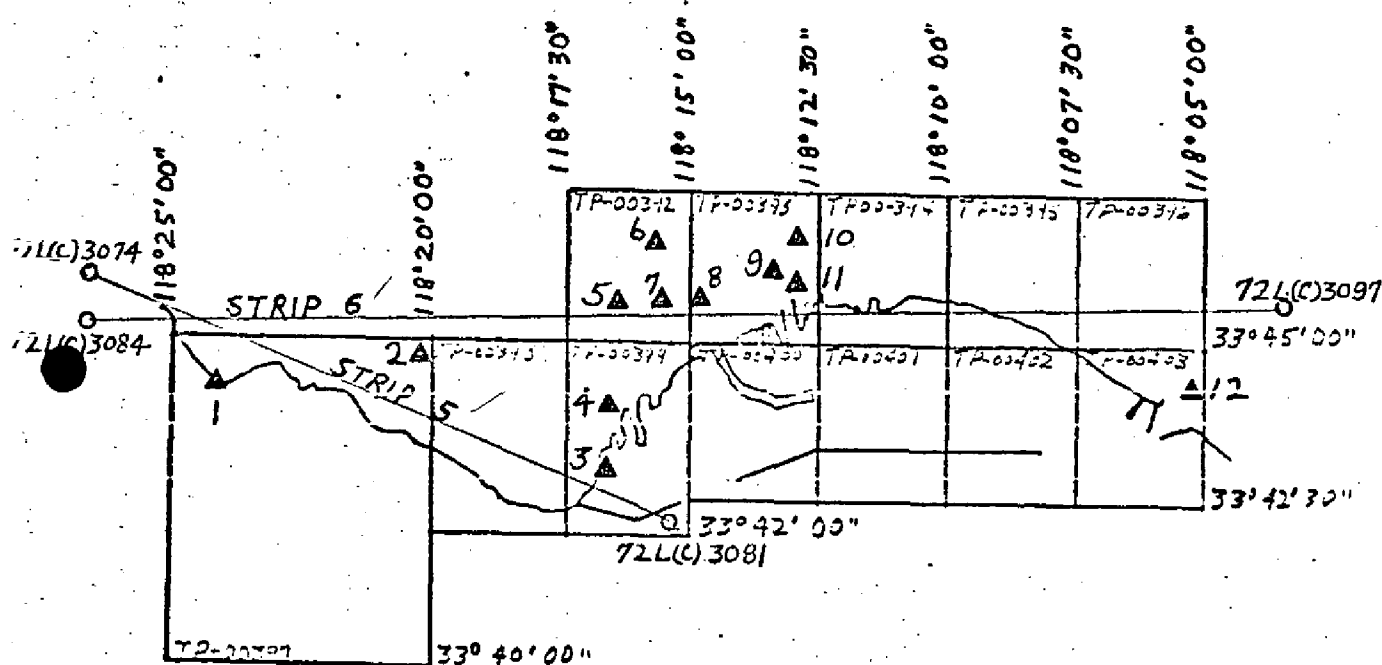
Part 2

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY	
TP-00392		PH-7107		NA 1927		Coastal Mapping Div, Norfolk, Va.	
STATION NAME		SOURCE OF INFORMATION (Index)		COORDINATES IN FEET STATE ZONE		GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	
WILMINGTON, BERTH 188-189 WATER TANK, 1933		Quad 331181 STA. 4051		X= Y=		φ 33 45 46.615 λ 118 15 30.019	
WILMINGTON, BERTH 176-177, WATER TANK, 1933		Quad 331181 STA. 4050		X= Y=		φ 33 45 33.430 λ 118 15 39.254	
SAN PEDRO PACIFIC COAST BORAX CO. STACK, 1933		Quad 331181 STA. 4048		X= Y=		φ 33 45 26.661 λ 118 15 56.047	
WILMINGTON, TAN WATER TANK, 1933		Quad 331181 STA. 4054		X= Y=		φ 33 45 40.608 λ 118 16 15.328	
WILMINGTON, SMART AND FINAL CO. WAREHOUSE TANK, 1933		Quad 331181 STA. 4053		X= Y=		φ 33 46 23.68 λ 118 15 45.54	
MEDORA, 1972		Bridge Form pg. 1		X= 1,388,184.519 Y= 585,893.965		φ λ	
WILMINGTON CATHOLIC CHURCH TOWER, 1933		Quad 331181 STA 4052		X= Y=		φ 33 46 58.01 λ 118 16 00.07	
				X= Y=		φ λ	
				X= Y=		φ λ	
				X= Y=		φ λ	
				X= Y=		φ λ	
COMPUTED BY A. C. RAUCK, JR.		DATE 10/12/73		COMPUTATION CHECKED BY T. R. Gustofson		DATE 10/17/73	
LISTED BY		DATE		LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE		HAND PLOTTING CHECKED BY		DATE	

COMPILATION REPORT

TP-00392

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using color photographs. Photography is adequate.

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 all alongshore details were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Forms 76-40 were forwarded to the field editor for further processing.

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 Torrance California, scale 1:24,000, dated 1964.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart 18302, 1:12,000 scale dated April 21, 1973.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Charles E. Blood
Charles E. Blood
Cartographic Technician
September 13, 1974

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

TP-00392

FIELD EDIT

The Field Editor located a submerged pile at approximately 33°45'30" Latitude 118°17'1" Longitude and showed the position on the paper ozalid, but failed to cross reference on the film ozalid, cronapaques or matte ratios. (The matte ratios for 72L(C) 2903-2906 could not be located in the office.) The position for the piling, therefore, was transferred directly from the paper ozalid and listed as "Position Approximate."

David P. Butler

June 15, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7107, Dana Point to Point Vicente, California

TP-00392

Cerritos Channel ✓

East Basin ✓

East Basin Channel ✓

Harbor Belt Line (RR) ✓

Mormon Island ✓

Northwest Slip ✓

Slip No. 1 ✓

Slip No. 5 ✓

Smith Island ✓

Southwest Slip ✓

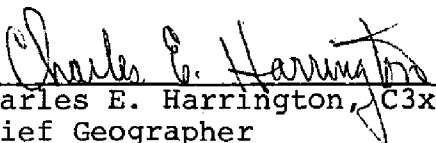
Terminal Island ✓

Turning Basin ✓

West Basin ✓

Wilmington ✓

Approved by:


Charles E. Harrington, C3x8
Chief Geographer

PHOTOGRAMMETRIC OFFICE REVIEW

TP - 00392

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 ALS	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
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 Frank Margiotta 9/74 <i>Frank Margiotta</i>		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 David Butler 7/10/75 Reviewer: A. L. Shands 10/3/75 <i>A. L. Shands</i>		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. RAUCK, Jr.	
43. REMARKS See form 76-36C, Item 8 of Field Inspection Operations, and Items 7 and 8 of 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

Replaces C&GS Form 567.

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

☒ TO BE CHARTED (If field party, ship or office)	REPORTING UNIT	STATE	LOCALITY	DATE
☐ TO BE REVISED	Coastal Mapping Div.	California	Dana Point to Point	July 1977
☐ TO BE DELETED	A.M.C. Norfolk Va.		Vicente	

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

DATUM

SURVEY NUMBER

JOB NUMBER

OPR PROJECT NO.

Ph-7107

TP-00392

N.A. 1927

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

OFFICE

FIELD

CHARTS
AFFECTED

DESCRIPTION

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

LATITUDE

LONGITUDE

POSITION

D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

TANK

(Wilmington, Tan Water Tank, 1933)

33 45

118 16

15.328

394.5

72L(C) 2904

Mar. 24, 1972

F-V-Vis.

Apr. 1975

5147

5148

STACK

(San Pedro, Pacific Coast Borax Co., Stack, 1933)

33 45

118 15

56.047

1442.4

"

"

"

"

"

"

TANK

(Wilmington, Berth 176-177 Water Tank, 1933)

33 45

118 15

39.254

1010.2

"

"

"

"

"

"

TANK

(Wilmington, Berth 188-189 Water Tank, 1933)

33 45

118 15

30.019

772.5

"

"

"

"

"

"

TANK

(Wilmington, Berth 188-189 Water Tank, 1933)

33 45

118 16

47.83

1231

72L(C) 2905

Mar. 24, 1975

"

"

"

"

STACK

(Wilmington, Berth 188-189 Water Tank, 1933)

33 45

118 17

19.97

514

"

"

"

"

"

"

TOWER

(Wilmington, Berth 188-189 Water Tank, 1933)

33 45

118 16

08.35

215

72L(C) 2904

Mar. 24, 1975

"

"

"

"

TANK

(Wilmington, Berth 188-189 Water Tank, 1933)

33 45

118 16

12.51

322

"

"

"

"

"

"

STACKS

(Center one of five)

33 46

118 15

53.79

1384

"

"

"

"

"

"

DONE

(Center one of five)

33 45

118 15

14.77

380

"

"

"

"

"

14

REVIEW REPORT
TP-00392

SHORELINE

October 23, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

Field edit was performed in 1975. Hydrography was done in 1977. The hydrographic survey shows several shoreline changes which occurred since field edit. These are not shown on the map. All are pointed out on the Chart Maintenance Print.

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 Unverified Smooth Sheets H-9671 (FA-5-2N-77) and (FA-5-2S-77).

The field editor located three piers at lat. 33 45.8', long. 118 15.4'. Only two piers are shown at that location on the hydro survey. Two wrecks and a dolphin located by the hydrographer just north of there are not visible on the photography and were not located by the field editor.

Field edit and hydrography were not conducted concurrently. See paragraph 61.

65. COMPARISON WITH NAUTICAL CHARTS:

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

Wrecks charted at lat. 33 45.7', long. 118 16.5', and lat. 33 45.7', long. 118 15.3'; daybeacon at lat. 33 45.3', long. 118 16.6'; a submerged dolphin 1,200 meters west of the daybeacon and another 300 meters southeast of it are not visible on the photographs. None of these features were located by the field editor.

The field editor located three piers at lat. 33 45.8', long. 118 15.4' only one is shown on the chart at that location. Ruins charted at lat. 33 45.2' long. 118 16.3' are not visible on the photographs. The field editor did not locate any at that location. Different positions are shown on the map and chart for two dolphins charted east of the ruins.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Arnold L. Shands

Arnold L. Shands
Final Reviewer

Approved for forwarding:

Bill H. Barn
for

Chief, Photogrammetric Branch, AMC

Approved:

John D. Perrow Jr.
Chief, Photogrammetric Branch

Arnold L. Shands
Chief, Coastal Mapping Division

RECORD OF APPLICATION TO CHARTS

TP 20392

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]