TP-00707

TP-00707

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

Map No.	*Edition No.*
TP-00707	1

Job No.
CM-7604

Map Classification
CLASS III (FINAL)

Type of Survey
SHORELINE

LOCALITY

State
CALIFORNIA

General Locality
POINT CONCEPTION TO POINT ESTERO

Locality
MORRO ROCK

19 76 TO 19

REGISTERED IN ARCHIVES

DATE

* U.S. GOVERNMENT PRINTING OFFICE: 1980-665-115

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY
- [X] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

SURVEY TP. 00707
MAP EDITION NO. (1)
MAP CLASS Class III (final)
JOB CM-7604

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Division, Norfolk, VA

OFFICER-IN-CHARGE
Jeffrey G. Carlen, CDR

LAST PRECEEDING MAP EDITION
TYPE OF SURVEY
- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

JOB PH-
MAP CLASS
SURVEY DATES:
19 TO 19

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotriangulation	June 10, 1976	Pre-marking	January 12, 1976
Compilation	August 20, 1976	Tide Observations	January 23, 1976

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER; [ ] MEAN LOW-WATER; [X] MEAN LOWER LOW-WATER; [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Lambert Conformal

4. GRID(S): STATE: California; ZONE: 5

5. SCALE: 1:5,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	B. Thornton	Aug 1976
	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	H. Jones	Aug 1976
	CHECKED BY	H. Jones	Aug 1976
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	G. Morris	June 1977
	CHECKED BY	J. Byrd	June 1977
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:7,500	CHECKED BY	N.A	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	I. Perkinson	Sept 1977
	CHECKED BY	J. Byrd	Nov. 1977
METHOD:	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
	HYDRO SUPPORT DATA BY	I. Perkinson	Sept 1977
SCALE: 1:5,000	CHECKED BY	J. Byrd	Nov 1977
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Byrd	Nov 1977
6. APPLICATION OF FIELD EDIT DATA (Partial F.E.)	BY	G. Morris	May 1978
	CHECKED BY	J. Massey	July 1978
7. COMPILATION SECTION REVIEW Class III	BY	J. Massey	July 1978
8. FINAL REVIEW Class III (final)	BY	C. Blood/J. Byrd	Aug 1984
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Byrd	Jan. 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	J. Schad	May 1985
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E DAUGHERTY	JUN 85

NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES

*U.S. GOVERNMENT PRINTING OFFICE-1977-765-092

NOAA FORM 76-36B
(3-72)

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

TP-00707

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) focal length 152.74 mm
Wild R.C. - 10"B"

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Pacific — [X] STANDARD
MERIDIAN: 120th — [ ] DAYLIGHT

TIDE STAGE REFERENCE
[X] PREDICTED TIDES
[ ] REFERENCE STATION RECORDS
[X] TIDE CONTROLLED PHOTOGRAPHY

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
76B(C)2599-2600*	Mar.14,1976	11:05	1:15,000	3.4 ft. above MLLW
76B(C)2590-2593*	Mar.14,1976	10:55	1:15,000	3.4 ft. above MLLW
76B(I)2538-2541*	Mar.14,1976	09:58	1:15,000	0.02 ft. below MHW
76B(I)3184-3186**	Mar.21,1976	10:50	1:15,000	0.17 ft. below MLLW
76B(I)3213-3214**	Mar.21,1976	11:12	1:15,000	0.15 ft. above MLLW
76B(I)2827*	Mar.15,1976	10:49	1:15,000	0.17 ft. below MHW
				Mean tide range=3.5 ft.

REMARKS *The stage of tide for 76B(C)2599 thru 2600 and 76B(C)2590 thru 2593 was determined from predicted tides for Morro Beach, Estero Bay. MHW was computed to be MLLW +4.5 ft.

2. SOURCE OF MEAN HIGH-WATER LINE:

*The mean high water line was compiled graphically from the above listed tide coordinated infrared photographs at mean high water.

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

**The mean lower low water line was compiled graphically from the above listed tide coordinated infrared photographs at mean lower low water.

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-00706 1:20,000	TP-00708 1:5,000	TP-00709 1:5,000	No survey

REMARKS

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36C
(3-72)

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

TP-00707

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION (Partial)

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		B. I. Williams	Feb 1978
2. HORIZONTAL CONTROL	RECOVERED BY	J. A. Withrow	Feb 1978
	ESTABLISHED BY	J. A. Withrow	Feb 1978
	PRE-MARKED OR IDENTIFIED BY		
3. VERTICAL CONTROL	RECOVERED BY		
	ESTABLISHED BY		
	PRE-MARKED OR IDENTIFIED BY		
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	J. A. Withrow	Feb 1978
	LOCATED (*Field Methods*) BY	J. W. Withrow	Feb 1978
	IDENTIFIED BY		
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☒ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION	BY R. B. Crowell	Feb 1978
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. B. Crowell	Feb 1978
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)

76B(I)3185, 3214

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME

PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

Field edit report, field edit data volume.

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

3B

NOAA FORM 76-36C
(3-72)

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

TP-00707

HISTORY OF FIELD OPERATIONS

I. [XX] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. Melby	Feb, Mar 1976
2. HORIZONTAL CONTROL	RECOVERED BY	R. Melby	"
	ESTABLISHED BY	R. Melby	"
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	N.A.	
	ESTABLISHED BY	N.A.	
	PRE-MARKED OR IDENTIFIED BY	N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	None	
	LOCATED (*Field Methods*) BY	R. Melby	Mar 1976
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [XX] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED: None

2. VERTICAL CONTROL IDENTIFIED: N.A.

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 [XX] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [XX] NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

2 Form 277 (Tides Book) covers entire project.

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

TP-00707

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.	Sept. 1977	Class III Manuscript	NONE	
Field edit applied	May 1978	Class I Map (Cancelled)	July 1978 Chart Main	
Final reviewed.	Aug. 1984	Class III Map (Final) (Partial edit)	May 1985	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		July 1978	Form 76-40 with (7) Fixed Aids to Nav. to be charted.
1		July 1978	Form 76-40 with (4) Landmarks to be charted.
1		July 1978	Form 76-40 with (4) incomplete aids to nav.
2		May 1985	Final Class III (Partial edit) Landmarks and Aids for Charting

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
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 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

Field edit mylar ozalids lost.

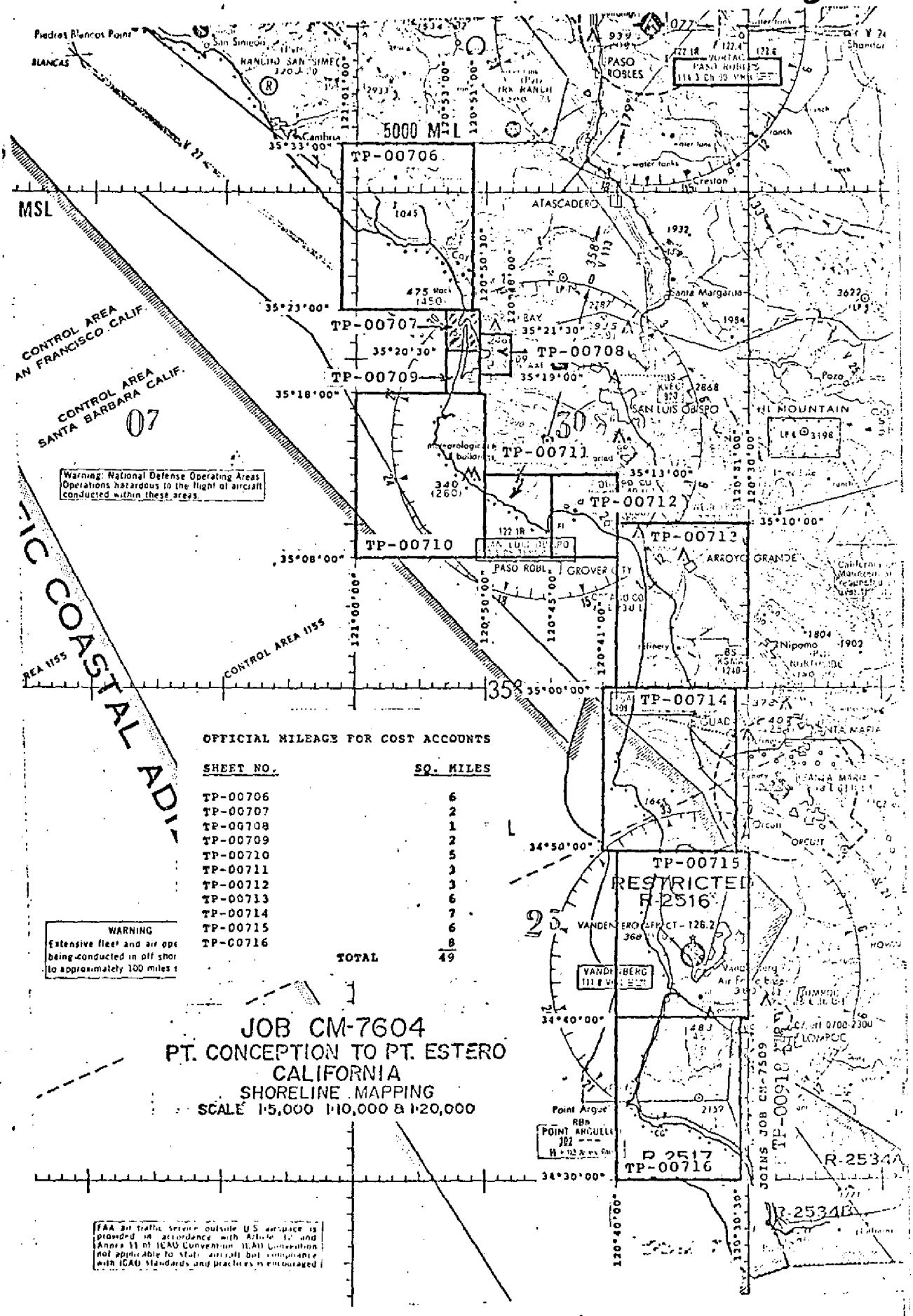
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL

NOAA FORM 76-36D

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	SQ. MILES
TP-00706	6
TP-00707	2
TP-00708	1
TP-00709	2
TP-00710	5
TP-00711	3
TP-00712	3
TP-00713	6
TP-00714	7
TP-00715	6
TP-00716	8
TOTAL	49

WARNING
Extensive fleet and air ope
being conducted in off shor
to approximately 100 miles

JOB CM-7604
PT. CONCEPTION TO PT. ESTERO
CALIFORNIA
SHORELINE MAPPING
SCALE 1:5,000 1:10,000 & 1:20,000

FAA air traffic service outside U.S. airspace is provided in accordance with Article 12 and Annex 11 of ICAO Convention. (FAR Limitations not applicable to State aircraft but compliance with ICAO Standards and practices is encouraged.)

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00707

This 1:5,000 scale Class III shoreline manuscript is one of eleven maps designated as project CM-7604, Point Conception to Point Estero, California.

The purpose of this project is to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations.

This final Class III map with partial field edit portrays a portion of the coast shoreline south of Morro Beach to Lat. 35 20'30" and the north half of Morro Bay, west of Long. 120 50'30".

Field work prior to compilation consisted of the recovery and identification of the horizontal control necessary for the aerotriangulation of the project and establishing and monitoring tide gages while the photography was being taken for the tide coordinated infrared photographs. This activity was completed March 1976.

Photo coverage was adequately provided by the natural color and tide coordinated infrared photographs. Photographs were taken with the RC-10 (B) camera March 1976 at 1:15,000 scale. The black-and-white infrared photos were ratioed to the manuscript scale. They were used for graphic delineation of rocks, foul area and both the MLLW and MHW lines.

Analytic aerotriangulation was adequately provided by the Washington Science Center in August 1976. Aerotriangulation operations included ruling the base manuscripts and determining ratio values for photographs.

Compilation based upon photo-interpretation was performed by the Coastal Mapping Unit at the Atlantic Marine Center November 1977. Compilation included the use of MHW an MLLW tide coordinated infrared photographs ratioed to the manuscript scale. Refer to the Compilation Report, Item #31 and NOS Form 76-36B for specific usage of the photography.

Project material was forwarded from AMC to PMC for field edit. Field edit was performed at PMC in conjunction with Hydrographic Survey OPR L-100-FA-78. The field edit material was lost and could not be verified at AMC during final review. The map was classified as a Class I map at PMC, but was reclassified as a Class III at AMC final review inspection.

Field edit consisted of locating several piles, stakes, and pipes along but outside the Morro Bay Channel; these obstructions are shown on the manuscript but cannot be verified since the field edit was lost. The field editor delineated two areas for shoreline revision on photographs, the west side of Morro Rock and between Fairbank Point and White point.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00707

The Daybeacons were not in place at the time the photographs were taken and are not shown on the manuscript. The contemporary hydrographic survey H-9737, January-February 1978, 1:5,000 scale determined the position of these aids.

A comparison with Chart 18703, inset 1:10,000 dated June 11, 1983, indicates that the field edited data had been applied to the Chart.

Areas of shoreline surrounding Morro Rock and its breakwater were revised during final review from interpretation of the photographs.

The west end of the pier paralleling the shoreline south of White Point was revised during the final review.

A film copy annotating changes during final review was prepared and forwarded to Hydro Surveys Branch.

Final review was performed at the Atlantic Marine Center August 1984. A Chart Maintenance Print was prepared for the Marine Chart Branch.

This Descriptive Report contains all pertinent information used to compile this Final Class III map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00707

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification (premarking) of the horizontal control necessary for the aerotriangulation of the project and the monitoring of tide gages for the tide coordinated infrared photography.

Photogrammetric Plot Report
Pt. Conception to Pt. Estero, California
CM-7604
August 1976

Area Covered

The area covered by this report is the southwest coast of California from Pt. Conception to Pt. Estero. This area is covered by six 1:20,000 scale sheets:

TP-00706
TP-00710
TP-00713 thru TP-00716

Two 1:10,000 scale sheets:

TP-00711
TP-00712

Three 1:5,000 scale sheets:

TP-00707 thru TP-00709

Method

Four strips of color photography were bridged by analytic aerotriangulation methods. Three bridging strips were at a 1:60,000 scale and one strip at 1:30,000 scale photography.

The four strips were controlled by field identified control including some office identified control which was used as checks.

Common points were located on the bridging photography and the tide-controlled IR for ratio purposes. Ratios were ordered on August 11, 1976. In addition, common points were located on the bridging and compilation photography. The points read on the bridging strips are more than adequate for compilation purposes. Tie points were used in all four strips to insure an adequate junction of all strips during the adjustments. Sheets were ruled on the coradomat.

Adequacy of Control

Control checked well within map accuracy standards and is more than sufficient for its intended use at the varying manuscript scales.

Supplemental Data

USGS quadrangles were used to provide vertical control for the strip adjustments.

Photography

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

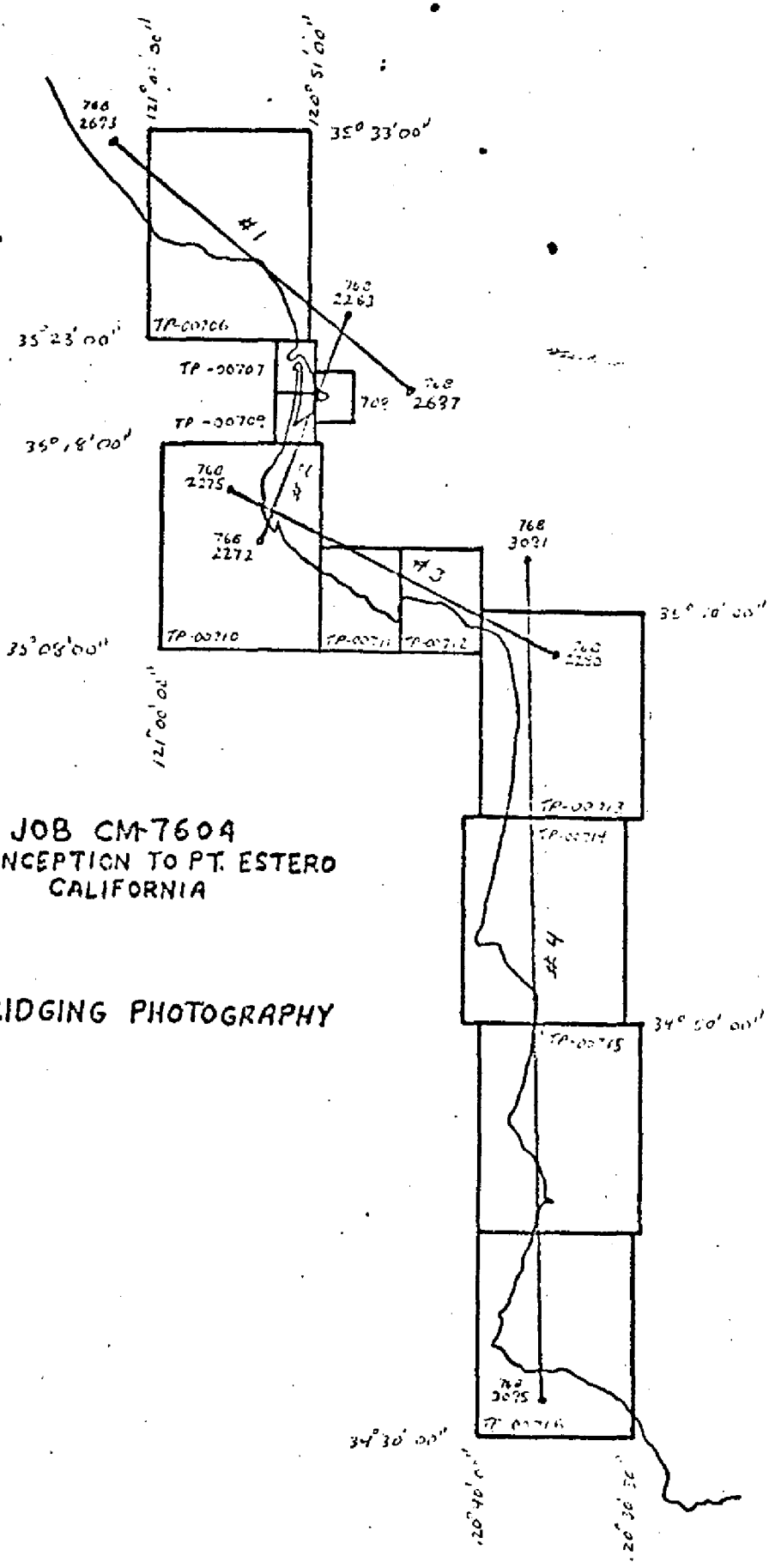
Submitted by:

Brian F. Thornton

Approved and Forwarded:

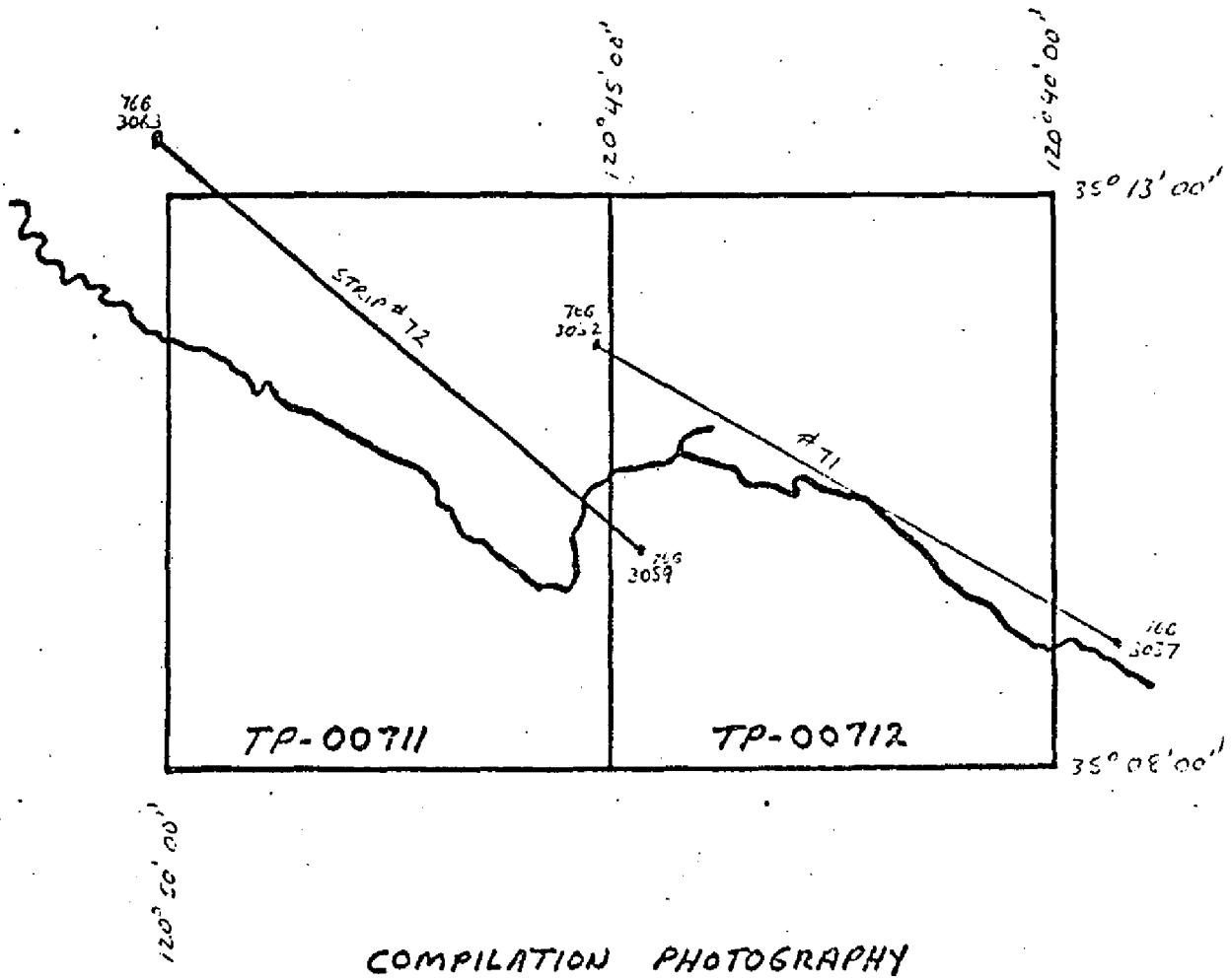
John D. Perrow Jr.

Chief, Aerotriangulation Section



JOB CM-7604
PT. CONCEPTION TO PT. ESTERO
CALIFORNIA

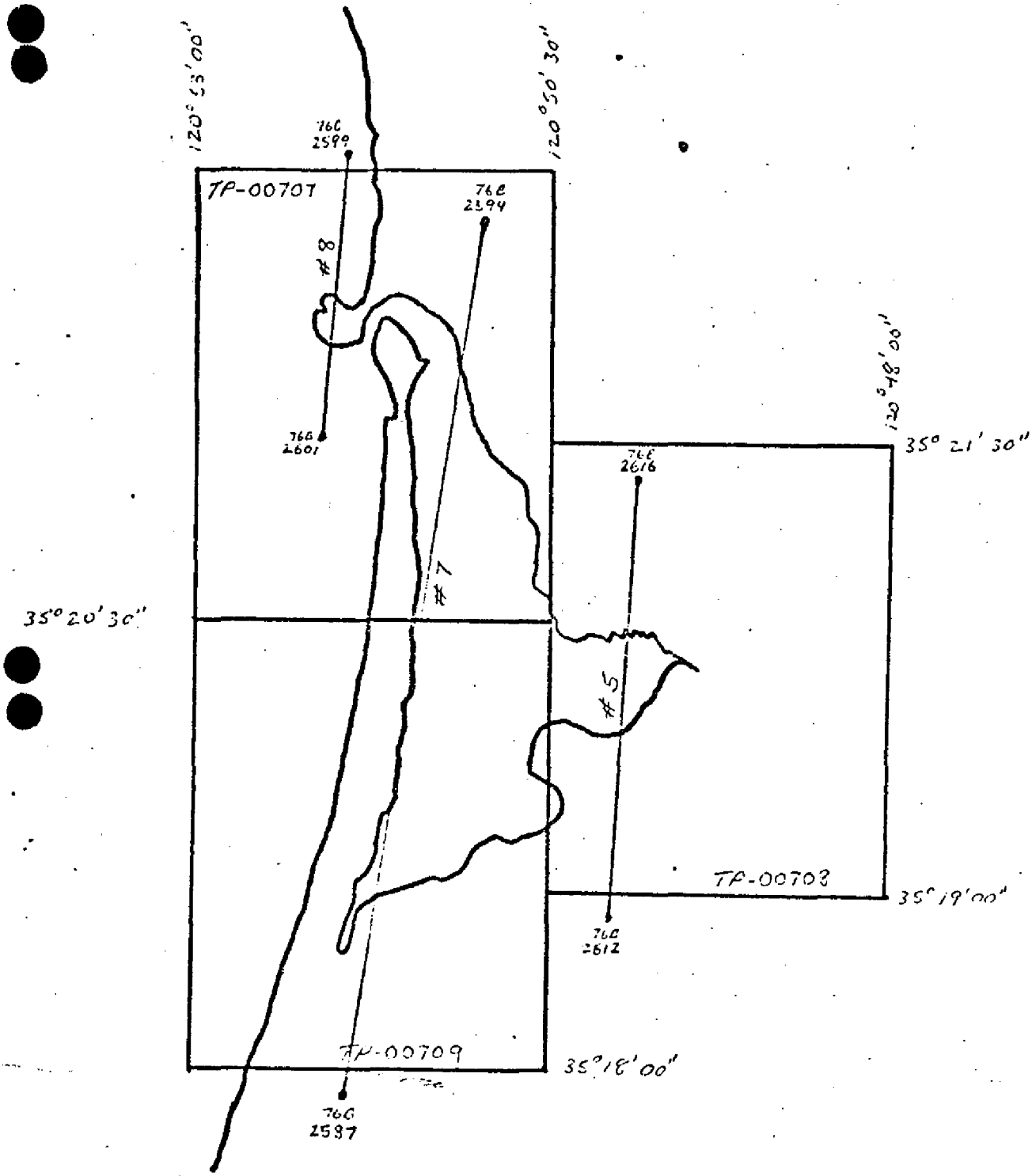
BRIDGING PHOTOGRAPHY



COMPILATION PHOTOGRAPHY

for

1:10,000 SHEETS



COMPILATION PHOTOGRAPHY
FOR
1:5,000 SHEETS

Accuracy of Control Used In Strip Adjustment

		X	Y
STRIP #1	267100	-1.4	1.3
	263100	-0.7	2.3
	689100	-1.2	0.3
	691100	0.6	-0.1
	692100	-0.1	0.2
STRIP #2	263100	0.1	-0.1
	267100	-0.2	0.7
	268101	-0.3	-0.6
	269100	0.6	-0.1
	275100	-0.2	0.1
STRIP #3	275100	0.1	0.7
	276100	0.1	-1.5
	278100	-0.0	0.8
	81100	0.4	0.0
STRIP #4	STRIP #4 WAS SENT WITH JOB CM-7509 PT. CONCEPTION TO PT. HUENEME		

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00707	CM-7604	N.A. 1927	Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
MORRO BAY P.G. AND E STACK, 1976	351203 Page 1140	266110	x=	φ 35°22'19.485"	600.6 (1248.6)
			y=	λ 120°51'22.977"	580.0 (934.6)
MORRO 2, 1919	351203 Page 1051	30	x=	φ 35°22'10.037"	309.3 (1539.8)
			y=	λ 120°51'59.523"	1502.6 (12.0)
MORRO BAY WEST BREAKWATER LIGHT, 1976	Form 28D Field G.P.		x=	φ 35°21'46.555"	1434.7 (414.4)
			y=	λ 120°52'07.654"	193.2 (1321.6)
MORRO ROCK, 1881	351203 Page 1051		x=	φ 35°22'09.966"	307.1 (1542.0)
			y=	λ 120°51'59.525"	1502.6 (12.1)
HOUSE CHIMNEY, SOUTH OF STATION NO 2, 1933	351203 Page 1128		x=	φ 35°22'13.466"	415.0 (1434.1)
			y=	λ 120°51'11.701"	295.4 (1219.2)
WHITE, 1883-1935	351203 Page 1098		x=	φ 35°20'49.327"	1520.2 (328.9)
			y=	λ 120°50'33.985"	858.2 (657.1)
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY A. C. Rauck, Jr.	DATE 9/10/76	COMPUTATION CHECKED BY F. Margiotta	DATE 9/17/76
LISTED BY A. C. Rauck, Jr.	DATE 9/17/76	LISTING CHECKED BY F. Margiotta	DATE 9/16/76
HAND PLOTTING BY George Morris	DATE 7/78	HAND PLOTTING CHECKED BY J. W. Massey	DATE 7/78

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

COMPILATION REPORT
TP-00707

31. DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. Instrument compilation was used to delineate offshore, shoreline, alongshore and interior detail based upon office interpretation of the 1:15,000 scale color photographs. Tide coordinated MHW infrared photographs were used to graphically compile the Mean High Water Line. Tide coordinated MLLW infrared ratio photographs were used to graphically compile the approximate Mean Lower Low Water Line. Control for graphic delineation was provided by the instrument compilation of shoreline detail and common image points.

32 - CONTROL

Horizontal control was adequate. Refer to the Photogrammetric Plot Report dated August 1976.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

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

35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore detail compilation is described in Item #31. All detail is compiled as of date of the photography.

36 - OFFSHORE DETAILS

Offshore rocks in the vicinity of Morro Rock were delineated by the Wild B-8 stereoplotter as described in Item #31.

37 - LANDMARKS AND AIDS

There are 4 charted landmarks and 1 charted non-floating aid to navigation within the mapping limits of this manuscript. All were verified photogrammetrically. Appropriate information was prepared on Forms 76-40 and submitted with this map.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item #5.

TP-00707

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to Item #32.

46 - COMPARISON WITH EXISTING MAPS

The following U.S. Geological Survey Quadrangles were compared with the manuscript: Morro Bay North, CA, scale 1:24,000, dated 1965; and Cayucos, CA, scale 1:62,500, dated 1951.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following NOS Charts: 18700, 11th edition, dated July 3, 1976; scale 1:216,116; and 18703, 12th edition, dated December 27, 1975, scale 1:40,000, inset 1:10,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

Irene K. Perkinson
Cartographic Technician
September 26, 1977

Approved,

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

April 27, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7604 (Point Conception to Point Estero, California)

TP-00707

Estero Bay

Fairbank Point

Morro Bay

Morro Bay (locality)

Morro Bay State Park

Morro Creek

Morro Rock

White Point

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT TP-00707
SHORELINE

61 - GENERAL STATEMENT

See Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S.G.S. Quadrangles:
Morro Bay North, CA, scale 1:24,000, dated 1965,
Cayucos, CA, scale 1:62,500, dated 1951.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Survey H-9737, January-February 1978, 1:5,000 scale was used for comparison.

Changes during final review were made on areas of shoreline surrounding Morro Rock, including the breakwater and the west end of the large pier located on the south side of White Point.

These areas conflict with the previous Class I Map and H-9737. They were annotated on a film Hydro Print and forwarded to Chief, Hydro Surveys Branch.

65 - COMPARISON WITH NAUTICAL CHARTS

Chart 18703, June 11, 1983, 1:40,000 scale with 1:10,000 scale inset which covers most of map TP-00707, was used for comparison.

The charted daybeacons were not in place at time of photography, and are not shown on the manuscript.

A final Class III Chart Maintenance Print indicating all discrepancies was prepared and forwarded to Marine Charts Branch.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by,

James L. Byrd, Jr.

James L. Byrd, Jr.
Final Reviewer

Approved by,

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Ronald K. Brewer
Chief, Photogrammetry Branch,
Rockville

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

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)

☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
	Coastal Mapping Unit, AMC, Norfolk, VA	California	Point Estero to Point Conception	Mar.1985

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
	CM-7604	TP-00707	N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° / // D.M. Meters	POSITION LONGITUDE ° / // D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	METHOD AND DATE OF LOCATION FIELD	CHARTS AFFECTED
LIGHT	(Morro Bay West Breakwater Light, 1976)	35 21 1434.7	120 52 193.2	76 B(I) 2539	Triang Rec. February 1978	18703 18700

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	R. Crowell	☐ PHOTO FIELD PARTY ☒ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	R. Crowell	FIELD ACTIVITY REPRESENTATIVE
	C. Blood	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS

Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.

EXAMPLE: 75E(C)6042
8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.

EXAMPLE: F-2-6-L
8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.

EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED

When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.

EXAMPLE: Triang. Rec.
8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

Enter 'V-Vis.' and date.

EXAMPLE: V-Vis.
8-12-75

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

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

[X] TO BE CHARTED [ ] TO BE REVISED [ ] TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
	PMC Photogrammetry Branch	California	Point Estero- Point Conception	7/12/78

The following objects HAVE [ ] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
OPR-L100-78	CM-7604	TP-00707	N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
STACK	(Morro Bay P.G. & E. Stack, 1956) Northwest of Three	35 22	19.485 600.5	120 51	22.977 580.0	76B(C)2593 14 Mar 76	Triang Rec Feb 1978	18700 18703
STACK	Center of Three	35 22	18.63 574	120 51	21.46 542	76B(C)2593 14 Mar 76		18700 18703
STACK	East of Three	35 22	17.76 547	120 51	19.99 504	76B(C)2593 14 Mar 76		18700 18703
STANDPIPE		35 22	20.78 640	120 51	04.12 104	76B(C)2593 14 Mar 76		18700 18703

FORM C&GS-8352
(3-20-63)

NAUTICAL CHART 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 Re

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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