FP-00538

AAON	FORM	76-35
	/3_7C\	

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

DESCRIPTIVE REPORT

	<u></u>
Map No.	Edition No.
TP-00538	1
Job No.	
CM-7704	
Map Classification	This map edition will
CLASS III (FINAL)	not be field edited
Type of Survey	
SHORELINE	ر , ا
LOCA	LITY
State	*
California	N Young
General Locality	
San Francisco and	San Pablo Bays
Locality	
Coyote Creek	
<u></u>	
 _	
1977 TC) 19
REGISTRY IN	ARCHIVES
DATE	

*U, S, GOVERNMENT PRINTING OFFICE:1976-669-248

NOAA FORM 76-36A SURVEY TP.00538 U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN TYPE OF SURVEY ORIGINAL MAP EDITION NO. (1) MAP CLASS III (FINAL) RESURVEY **DESCRIPTIVE REPORT - DATA RECORD** ##K_CM-7704 REVISED PHOTOGRAMMETRIC OFFICE LAST PRECEEDING MAP EDITION TYPE OF SURVEY PH-_ Coastal Mapping Division, Norfolk, Va. ORIGINAL MAP CLASS ----OFFICER-IN-CHARGE RESURVEY SURVEY DATES: REVISED 19__TO 19__ Roy K. Matsushige, CDR. I. INSTRUCTIONS DATED 1. OFFICE 2. FIELD Feb. 7, 1977 April 13, 1977 Control-Premarking Aerotriangulation Aug. 3, 1977 Compilation April 20, 1978 Amendment I April 6, 1979 Amendment II 30, 1979 Amendment III July 2, 1981 Compilation (Memo) July II. DATUMS OTHER (Specify) X 1927 NORTH AMERICAN 1. HORIZONTAL: OTHER (Specify) MEAN HIGH-WATER MEAN LOW-WATER 2. VERTICAL: MEAN LOWER LOW-WATER MEAN SEA LEVEL 3. MAP PROJECTION 4. GRID(S) STATE ZONE 3 CA Lambert Conformal 5. SCALE STATE 1:20,000 III. HISTORY OF OFFICE OPERATIONS **OPERATIONS** NAME DATE <u>July 1977</u> 1. AEROTRIANGULATION R. Kelly METHOD: Analytic LANDMARKS AND AIOS BY July 1977 2. CONTROL AND BRIDGE POINTS PLOTTED BY Solbeck 5 4 1 METHOD: Coradomat CHECKED BY Nov. 1978 3. STEREOSCOPIC INSTRUMENT J. Roderick PLANIMETRY BY COMPILATION Nov. 1978 L. Neterer Jr. CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY N.A. 1:25,000 SCALE: CHECKED BY N.A. Dec. 1978 4. MANUSCRIPT DELINEATION PLANIMETRY BY J. Roderick Dec. 1978 CHECKED BY Margiotta CONTOURS BY N.A. метноо: Graphic, smooth drafted CHECKED BY N.A. Dec. 1978 HYDRO SUPPORT DATA BY J. Roderick SCALE: 1:20,000 Dec. 1978 CHECKED BY F. Margiotta Dec. 1978 5. OFFICE INSPECTION PRIOR TO FIELD EDIT <u>F. Margiotta</u> BY None 6. APPLICATION OF FIELD EDIT DATA CHECKED BY Class III Dec. 1978 7. COMPILATION SECTION REVIEW <u>F. Margiotta</u> Aug. 1981 Class III FINAL REVIEW ΒY Hancock Aug. 1981 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY J. Hancock Sept. 1981 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH ΒY G. Fromm 11. MAP REGISTERED - COASTAL SURVEY SECTION H. D. Wolfe MAR

NOAA FORM 76-36 A

SUPERSEDES FORM C&G\$ 181 SERIES

Chief, Photo Map and U.S. G.P.O. 1972-769382/582 REG.#6

NOAA	FORM	76~36B
10 701		

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

COMPILATION SOURCES

·					
1. COMPILATION PHOTOGRAPHY	·	-			
CAMERA(S) Wild RC=10(B) (B=15)	2.74MM)		HOTOGRAPHY SEND	TIME REFER	RENCE
TIDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAF		(C) COLOR (P) PANCHRO (I) INFRAREI		Pacific MERIDIAN 120th	X STANDARO
		T-4-5			<u> </u>
77B(P) 2657-2661 * 77B(P) 3728-3731 ** 77B(P) 3737-3741 ** 77B(I) 3920,3921,3923 77B(I) 3930,3932,3934 77B(I) 3300,3302 77B(I) 2926,2928,2930 2932 77B(I) 2978,2980,2982 77B(I) 2941,2943	Mar 4, 1977 Mar 18, 1977 Mar 18, 1977 Mar 29, 1977 Mar 29, 1977 Mar 11, 1977 Mar 5, 1977 Mar 5, 1977	14:05 14:23 14:21 14:39 12:30	1:50,000 1:30,000 1:30,000 1:40,000 1:40,000 1:40,000 1:40,000 1:40,000	Not computed Not computed Not computed +.26 Ft. MLLW +.31 Ft. MLLW +.01 Ft. MLLW +.28 Ft. MHW06 FT. MHW	
REMARKS' * Compilation pho Infrared photo	otography: * graphy: (MLLW	r* Hydro sup I and MHW) w	port photogr as ratioed t	raphy; to 1:20,000 scale	e.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled graphically using ratio prints of the appropriate tide-coordinated black-and-white infrared photography listed above under Item 1.

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

The mean lower low water line was compiled graphically using ratio prints of the appropriate tide-coordinated black-and-white infrared photography listed above under Item 1.

4. CONTE	EMPORARY	HYDROGRA	PHIC SUR	VEYS (List only those	surveys that are source	es for photogra	mmetric survey information.)
SURVEY N	NUMBER	DATE(S)		SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
5. FINAL	JUNCTION	s	TEAST		IsouTh		I WEST
	TP-005	35	_	No survey		survey	TP-00537

REMARKS

This map is the most souther Ty of project.

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NOAA FORM 76-36C (3-72)

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

TP-00538 HISTORY OF FIELD OPERATIONS

		HISTORY OF FIELD				
I. [X] FIELD INSPE		RATION (Premarking) FIELD			2475	
	OI	PERATION		NAME	DATE	
1. CHIEF OF FIEL	DPARTY	· · · · · · · · · · · · · · · · · · ·	R. Melby	,	Feb. 19	
		RECOVERED BY	. 500 · uf	<u> </u>		, 111
2. HORIZONTAL C	ONTROL	ESTABLISHED BY	n .,n<			11
		PRE-MARKED OR IDENTIFIED BY	L. Rigger	rs '	Feb. 19) 77_
		RECOVERED BY	_N.A		 -	
3. VERTICAL CON	TROL	ESTABLISHED BY	N.A		<u> </u>	
		PRE-MARKED OR IDENTIFIED BY	N.A.			
	F	RECOVERED (Triangulation Stations) BY	None			
4. LANDMARKS AN		LOCATED (Field Methods) BY	None			
AIDS TO NAVIG	ATION	IDENTIFIED BY	None		<u> </u>	
		TYPE OF INVESTIGATION				
5. GEOGRAPHIC N INVESTIGATION		COMPLETE BY SPECIFIC NAMES ONLY NO INVESTIGATION	<i>₹</i> †	*:		
6. PHOTO INSPECT	TION	CLARIFICATION OF DETAILS BY	None			
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	_N.A		Ţ - · -	
II. SOURCE DATA						-
I. HORIZONTAL C	ONTROL ID	ENTIFLED	2. VERTICAL CON	TROL IDENTIFIED		
Premark		•				
PHOTO NUMBER		STATION, NAME	PHOTO NUMBER	STATION DES	UGNATION.	
77B(P)2660	BM H-I	11, 1932 (Sub Pt.)				ż
3. PHOTO NUMBER	RS (Clarifice	tion of details)				
None						
4. LANDMARKS AN	ND AIDS TO	NAVIGATION IDENTIFIED				
None						
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME	
5. GEOGRAPHIC N	IAMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REPOI	RT [X] NON	——— ИЕ
7. SUPPLEMENTA			AN		(V) HOL	
None						
		keich books, etc. DO NOT list date submit 1-form 269C, 1-form 266,			t.	
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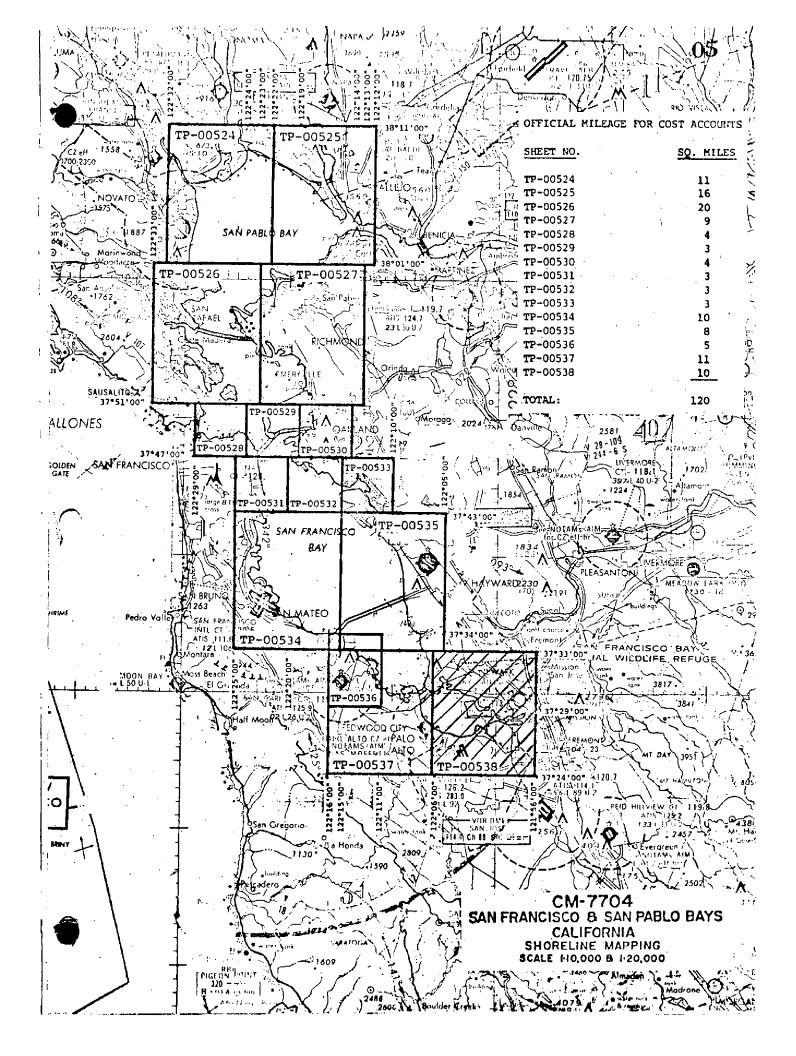
NOAA FORM 76-36D

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

RECORD OF SURVEY USE

TP-00538

I. MANUSCRI	PT COPIES			10000000000000000000000000000000000000		
The State of	C	MPILATION STAGE	ES		DATE MANUSC	RIPT FORWARDED
	TA COMPILED	DATE	RE	MARKS	MARINE CHART	S HYDRO SUPPOR
	tion complete field edit	Dec. 1978	Class III	manuscript	Feb. 5, 19	79
Final Re Class II		Aug. 1981		ss III Map t canceled	BEC 1981	
II. LANDMAI	RKS AND AIDS TO NAVIG	ATION				
	RTS TO MARINE CHART		L DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE			REMARKS	25 F 44
3. RE	PORT TO MARINE CHAR PORT TO AERONAUTICA L RECORDS CENTER DA	L CHART DIVISION			A STATE OF THE PARTY OF THE PAR	
2. K c. 3. X so Federa	RIDGING PHOTOGRAPHS, ONTROL STATION IDENT DURCE DATA (except for CCOUNT FOR EXCEPTION IT RECORD CENTER OF FORWARDED UNT	TFICATION CARDS; Geographic Names R NS: data for th	eport) AS LISTED	s 567 SUBMITTE IN SECTION II, NO be held by	DAA FORM 76-36C. Photogrammetr	y Division
4. D	ATA TO FEDERAL RECO	RDS CENTER. DA	TE FORWARDED:	12/8/8	as rec	eived.
V. SURVEY	EDITIONS (This section			p edition is regis		
SECOND	TP -	(2) PH -	•		TYPE OF SURVEY	ESURVEY
EDITION	DATE OF PHOTOGRAP		TELD EDIT		MAP CLASS	
LUTTION				□11. □	liii. 🗆 iv. 🗇 v.	FINAL
	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	
THIRD	TP -	_ (3) PH			REVISED R	SURVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	IELD EDIT		MAP CLASS JIII. □IV. □V.	All the second s
FOURTH	SURVEY NUMBER	(4) PH			TYPE OF SURVEY	SÜRVÉY
EDITION	DATE OF PHOTOGRAP			O	MAP CLASS	DFINAL



FIELD INSPECTION

TP-00538

There was no field inspection prior to compilation. Field work accomplished was limited to the premarking and establishment of the horizontal control necessary for the aerotriangulation of the project.

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS TP-00538

This 1:20,000 scale manuscript is one of fifteen maps, TP-00524 thru TP-00538 that comprise project CM-7704, San Francisco and San Pablo Bays, California. This project consists of eight 1:20,000 maps, six 1:10,000 maps featuring San Francisco Bay entrance and one 1:10,000 inset map of the Redwood Creek area.

The initial prupose of this project was to provide data in support of hydrographic operations beginning in the Fall of 1978. However, due to rapid cultural coast development, field activity has been temporarily delayed. Photogrammetry memo/instruction dated July 2, 1981, has reassigned this project, in its present stage, for final review and registration. Registration will include 10 Final Maps and 5 Final Class III Maps. Immediately afterward, a Revision Survey using 1981 photography is scheduled to facilitate hydrography and to provide Nautical Charts with current shoreline information.

This 1:20,000 scale Final Class III Map, of which field edit has not been accomplished, features the navigable waters projecting off Coyote Creek. This map is the southern limit for the project.

Field work prior to compilation was accomplished in March 1977; this involved the establishment of horizontal control in order to meet aerotriangulation requirements. During this period, ground support was provided for obtaining tide-coordinated photography and several of the project's navigational aids and landmarks for Charts were field determined.

Photo coverage was provided in March 1977 for aerotriangulation and compilation using panchromatic film with the "B" camera at 1:50,000 and 1:30,000 scales. Hydro support photography was taken using panchromatic film with the "B" camera at 1:30,000 scale. Tide coordinated black and white infrared photography at MHW and MLLW was supplied using the "B" camera at 1:40,000 and 1:30,000 scales.

Analytic aerotriangulation was adequately provided by the Washington Science Center in July 1977.

Compilation was performed at the Atlantic Marine Center in December 1978. The Class III manuscript was forwarded to PMC for the combined field edit and hydrographic operations. However, these functions have been temp-porarily canceled due to active cultural and shoreline changes that have developed since the 1977 photography. It is anticipated that current data will be furnished to the hydrographer and Nautical Charts through the 1981 Revision Survey.

Final review was performed at the Atlantic Marine Center in August 1981. At this time a comprehensive examination and office edit was accomplished to assure an accurate and complete photogrammetric map. The context of this Descriptive Report contains all the pertinent information used to compile this Final Class III Map.

The original base manuscript and all pertinent data was forwarded to the Washington Science Center for final registration and preparation for the 1981 Revision Survey.



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY

Pacific Marine Center

April 4, 1977

CPM17/RBM

T0:

C3415 Coastal Mapping

Robb. B. Welly 4/5/77

FROM:

Robert B. Melby

Chief, PMC Photo Party

SUBJECT:

Field Operations Project CM-7704, San Francisco and San

Pablo Bays, California

Horizontal Control:

Twenty-five horizontal control stations were paneled for aerial photography as indicated on the project diagram that was furnished to the photo-field party. A majority of the stations were paneled by the sub. pt. method as the stations did not lend themselves to being paneled direct. Distances up to about 2 miles were determined to the sub. points (panels), utilizing a Ranger III, laser distance measuring instrument. It was rapid, accurate and unaffected by eletronic disturbances, normal to a high population and/or industrial area like the project encompassed.

Vandalism was a problem, in regard to panels, as several were disturbed and required relaying or substituting with photo identifiable points.

Several aids to navigation and landmarks for charts were located by third-order tirangulation intersection methods. The aids to navigation (lights) marking the channel through San Bruno shoal would have been difficult to positively photo-identify.

All photo-panels were removed after photography to verify their being in place at the required time and to maintain a "cleanup" policy. All panels were in place by March 1, 1977.

Tide Controlled Photography:

The South San Francisco Bay shoreline was photography and controlled by nine, preselected tide stations. With the aid of the Pacific Tide Party, California Boundary Project, all nine stations were manned at the same time. A coordination point was selected in the southeast section of the City of Oakland that was capable of direct F.M. radio communications with all the stations and the photo-mission aircraft.





C3415 Coastal Mapping April 4, 1977 Page 2

The coordinator would transmit time checks and receive tide staff readings of involved stations and filter and transmit to the aircraft the flight lines that were within the required tide ranges and maintain a summary of staff readings.

Because of the elevation of the coordination site a Motorola Walkie-Talkie was sufficient to maintain communications to all sites and the aircraft.

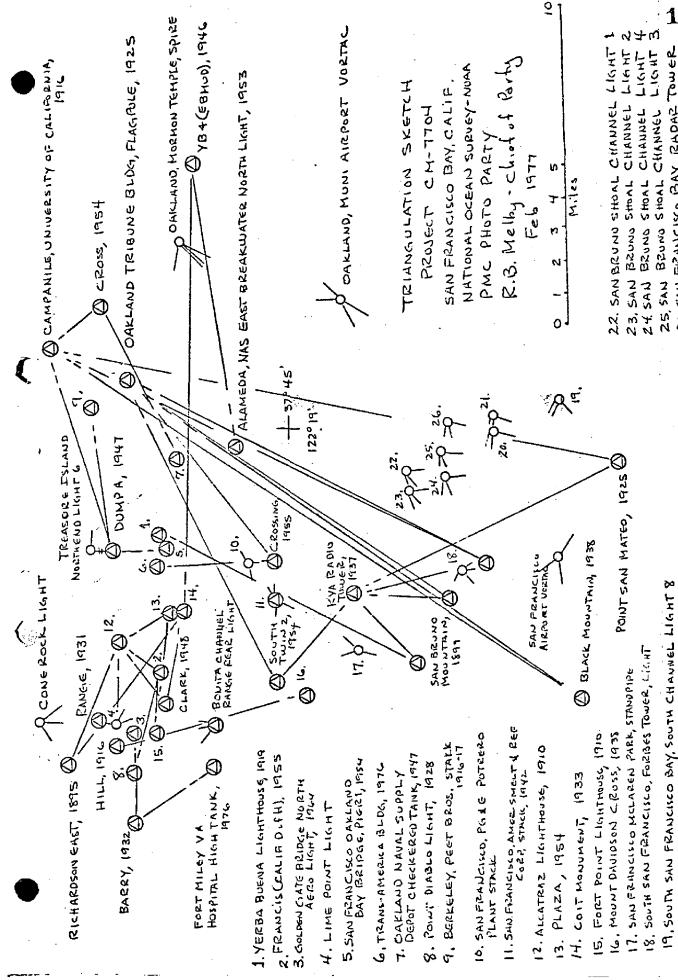
The operation was rather smooth as all observers were on station at the required time and no radio or transportation failures were experienced at the required times. The only difficulty encountered was an erratic tidal behavior during one series of projected favorable tides when during an unusual high pressure atmospheric condition the predicted tide range decreased by about 0.7 foot, causing stations to go out of range and greatly altering the tidal pattern.

Recommendations:

It is recommended that the field data, tidal predictions, etc., be furnished to the field units, with ample advance time to allow a thorough research and planning of the field phases of the project.

26. SAN FIZHNCIKO BAY RADAR TOWER

20,540 BRUND STORL CHANNEL LIGHT G



PHOTOGRAMMETRIC PLOT REPORT SAN FRANCISCO & SAN PABLO BAYS CALIFORNIA

Job CM-7704

July 22, 1977

21. Area Covered

This report covers eight 1:20,000 sheets, TP-00524, TP-00525, TP-00526, TP-00527, TP-00534, TP-00535, TP-00537, TP-00538, and seven 1:10,000 sheets TP-00528, TP-00529, TP-00530, TP-00531, TP-00532, TP-00533, and TP-00536 of San Francisco Bay and San Pablo Bay, California

22. Method

Seven strips of 1:50,000 scale panchromatic photography, taken with the "B" camera were bridged by analytic aerotriangulation methods and adjusted to ground on the California Zone 3. Common pass points were positioned between the 1:50,000 scale and 1:30,000 scale panchromatic photography, also taken with the "B" camera to provide horizontal control for compilation of the 1:10,000 and 1:20,000 scale maps.

Tide-coordinated supplemental photography, 1:30,000 and 1:40,000 scale MHW and MLLW were tied to the 1:50,000 scale bridging photography for shoreline compilation of 1:10,000 and 1:20,000 scale maps by means of positioning common points for ratio prints.

The 1:30,000 scale hydro support photography was also tied to 1:50,000 scale bridging photography by common points to determine the exact ratios. Tie points were used to augment datum between bridging strips. After running a strip adjustment on strip 5, it was found, for no apparent reason, that the control and tie points did not fit. This was resolved by running a block adjustment. Ruling of manuscripts and plotting of points was done on the Coradomat. A list was forwarded with this job, CM-7704, to AMC for selection of ratios to be ordered.

23. Adequacy of Control

The horizontal control provided was adequate except for Bench Mark H - 111, 1932 paneled substation, which did not hold in strips 5 and 7. The home station was plotted on a USGS quadrangle and did not fall in the area given in the description. All other control held within the accuracy required by National Standards of Maps at 1:10,000 and 1:20,000 scale.

24. Supplemental Data

Local shoreline and USGS quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

The photography was adequate as to placement of flight lines consistent quality, definition and absence of haze.

Submitted by:

Robert B. Kelly

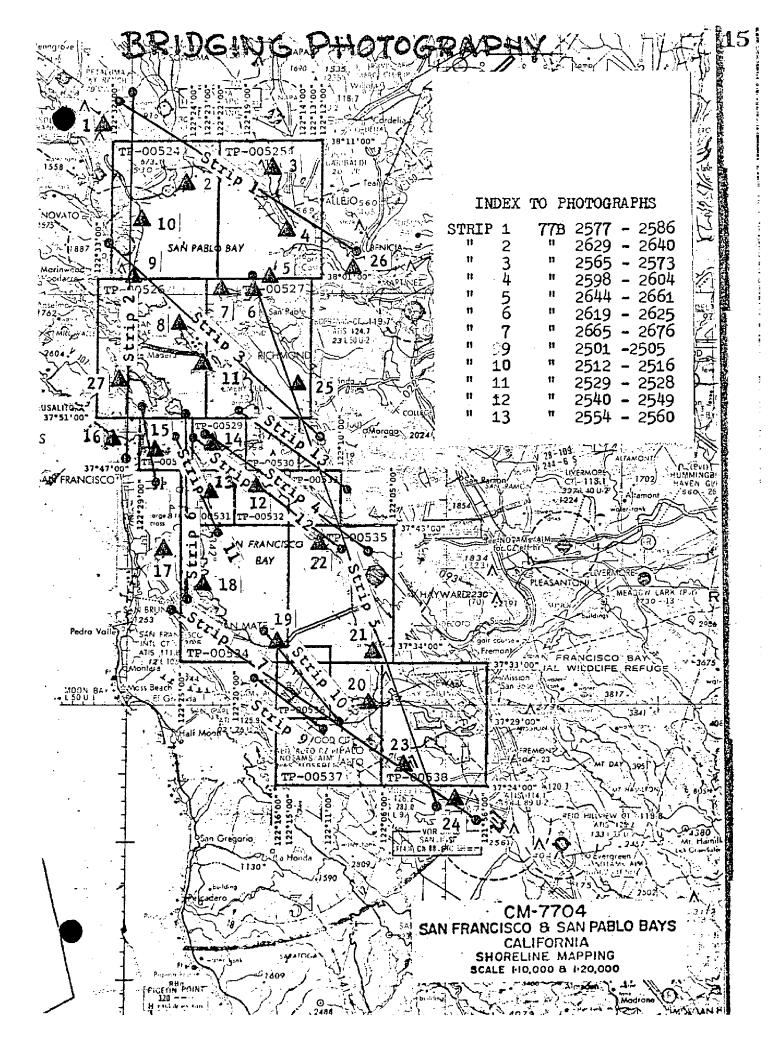
Approved and Forwarded:

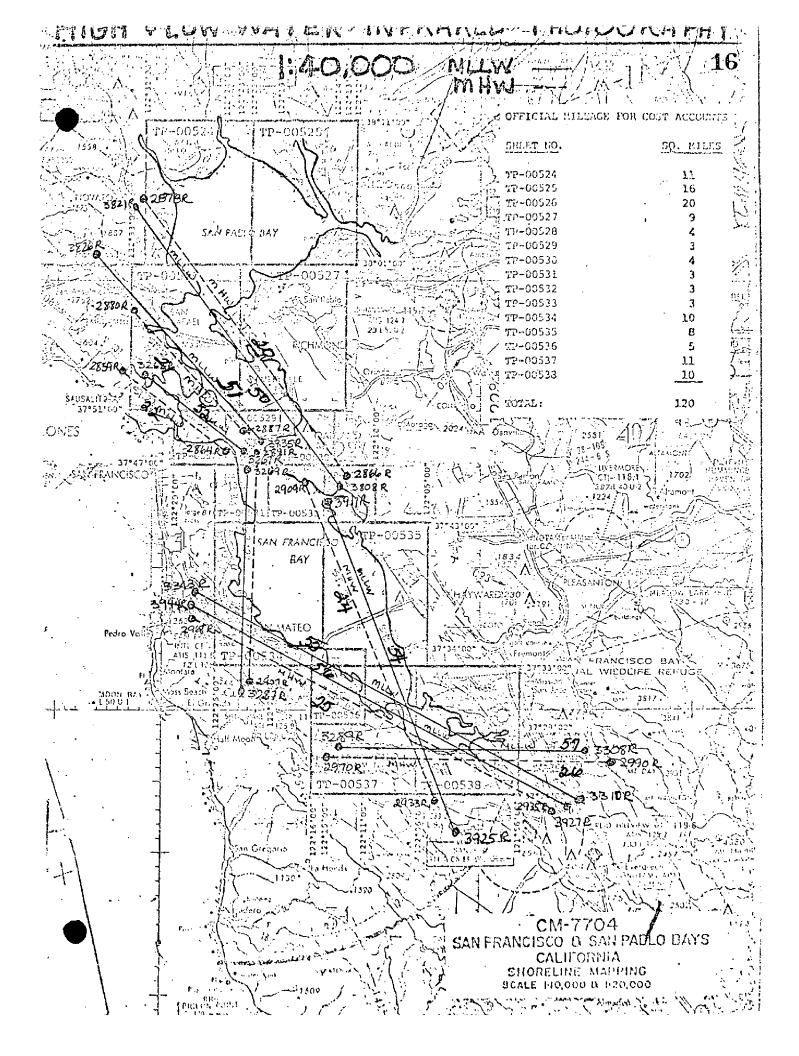
John D. Perrow, Jr 🏿

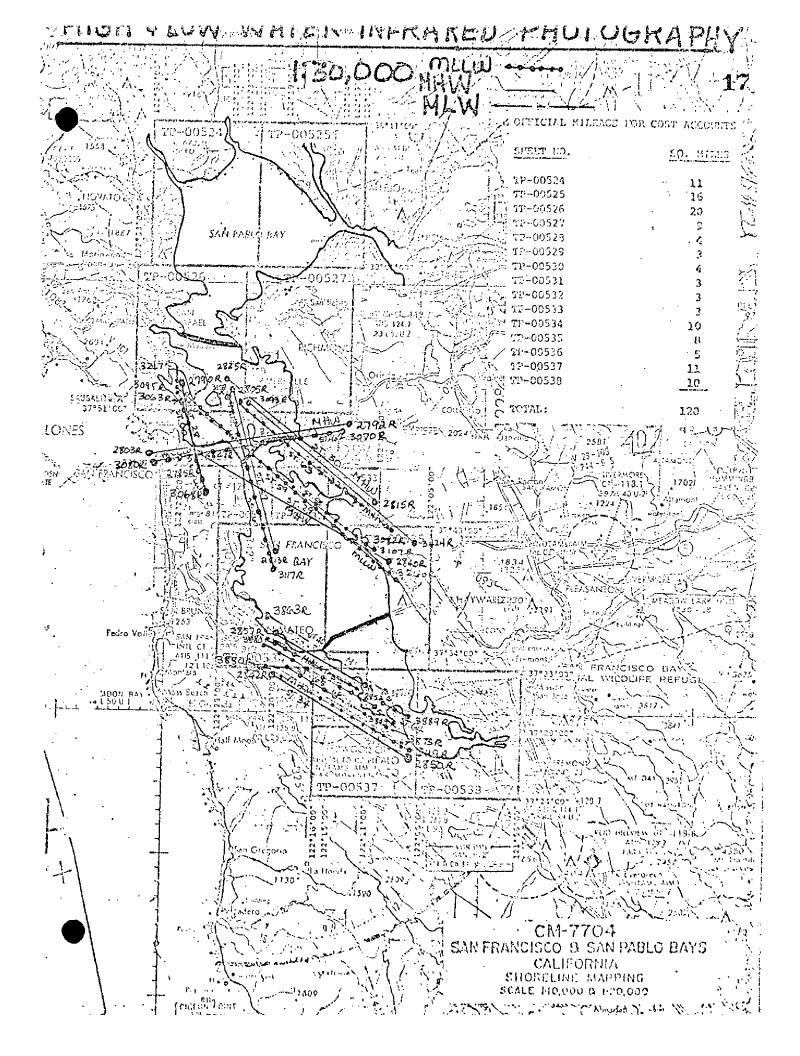
Chief, Aerotriangulation Section

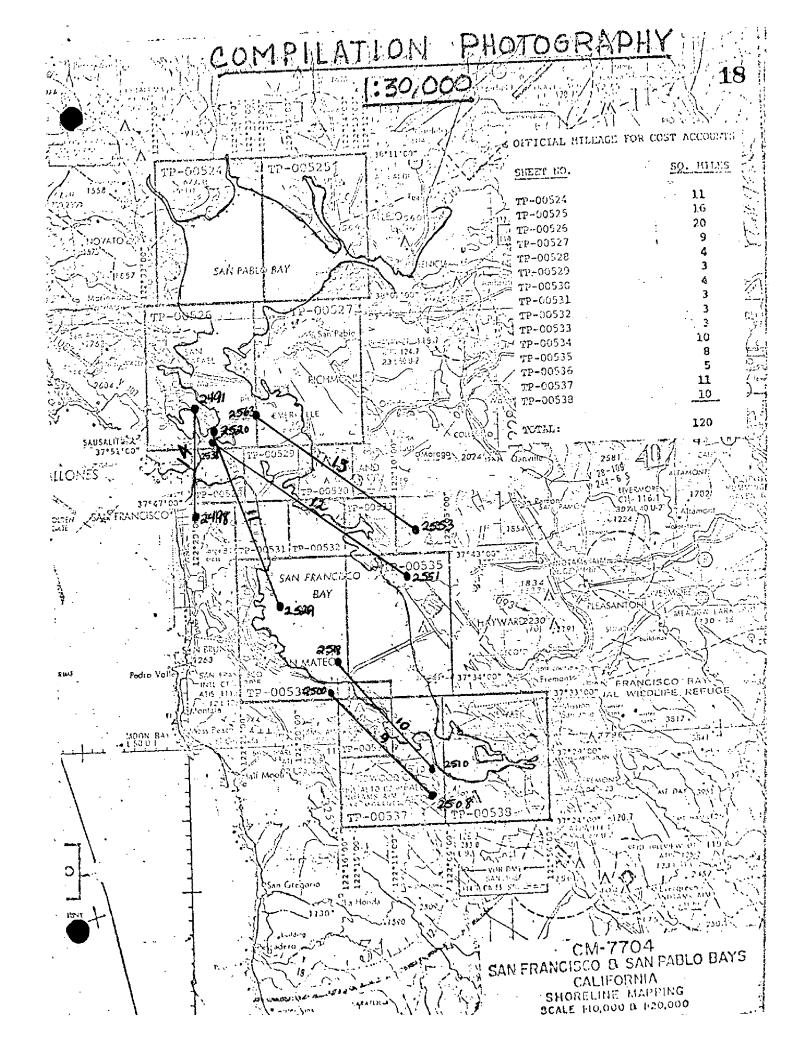
KEY TO NUMBERED CONTROL STATIONS USED IN ADJUSTMENT AND CLOSURES

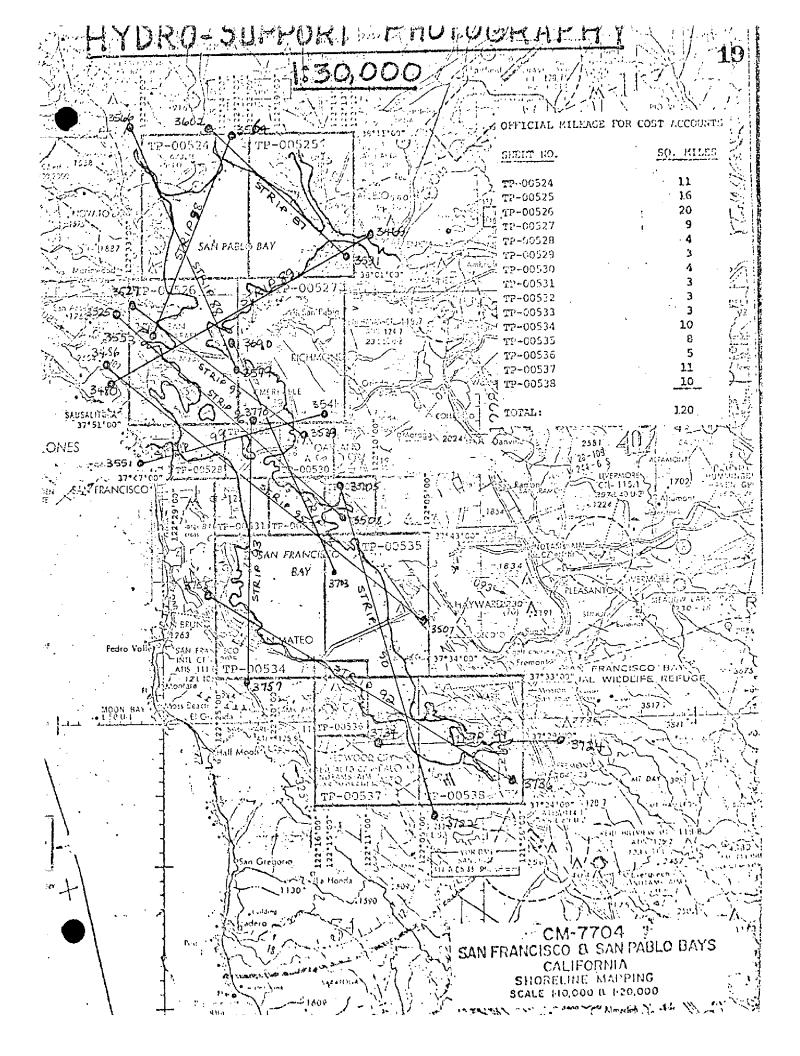
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1 LAKEVILLE, SQUARE TANK ON HILL, 1951 TANK( 1.04,-3.77)
                                         PANEL( -.25, .23)
 2 BUG (SLC), 1951 COULD NOT SEE
 3 SLAUGHTERHOUSE PT. 3, 1921
                                                         -2.22, .52)
 4 MARE ISLAND SOUTHEAST= ,1952
5 PINOLE HERCULES POWDER CO., TANK ,1947
                                                          3.02, -.23)
                                                           .38, -.17)
                                                           .08, -.10)
 6 WILSON, 1852
 7 POINT PINOLE ATLAS DOCK, SHED E. GABLE, 1950 COULD NOT SEE
8 SAN PABLO RIDGE, 1897
                                                         ( 2.14.-£.21)
                                                           -.65,
 9 GROVE POINT 2, 1887
10 PETALUMA CREEK, 1851
                                                           1.70,- .24)
11 RICHARD, 1932
                                                          -2.08,
                                                                   .91)
12 ALAMRDA N.A.S. E. BREAKWATER N. LT. 1953
                                                                   .001
                                                            .00,
13 CROSSING, 1955
                                                           -.09, -.42
                                                            .00,
14 T I C9. 1947
                                                                   .00
15 CLARK, 1948
                                                            .45,
                                                                   .74)
16 BARRY, 1932
                                                          -3.36,-.98)
17 SAN BRUNO MTN. (RADIO STA. KNBC MAST), 1899
                                                            .03,
                                                                   .49)
                                                            .04, - .19)
18 POINT-SAN-BRUNO, 1925
19 GUANO ISLAND, 1851
                                                          3.33 ,-1.50)
20 DUM, 1930
                                                          -1.31, 1.01
21 RED HILL, 1851
                                                           .05, .01)
22 SAN, 1947
                                                            .27,
                                                                   .20)
23 BENCH MARK H 111, 1932 DID NOT FIT ADJUSTMENT
24 COFFIN 2, 1974
                                                            .07, - .02)
25 BALDOPRAK (EBMUD),1946
                                                           .15, .02)
26 BUCK, 1949
                                                          -1.04,- .52)
27 MANZANITA (CADH), 1972
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20 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 1283.5~ 1134.9 179.3 -1562.5 461.4 1719.8 201.6~ 1134.9 854.8 1247.8 225.7 366.5 102.3 366.2 271.1 6.498 253.5 468.3 116.2 854.6 359.1 Coastal Mapping Div., A.M.C. REMARKS Page 1 of 3 DATE 9/21/77 DATE 8/19/77 ęί 1483.6 1356.7 714.8 1271.9 1293.8 566.3 ~ 1108.6 1490.6 1578.6 1381.5 618.4 1596.21371.2609.6 1013.1 714.8 129.9 287.3 618.2 ORIGINATING ACTIVITY λ 122004'52.69949" \$37032'18.36773"~ λ-122001 150.811" λ 121058'45.092"~ λ 122000'55.266" λ 122001'55.834"-A LONGITUDE 7 122003 25 189" λ 121059'41.225 ~ \$ 37027'51.206" ~ λ 122004'51.79" 4-37032-23-187"λ-1-2-2003-1-25-1-83¹¹ λ 121058'24.804" GEOGRAPHIC POSITION LATITUDE \$37032'48.123" \ \$ 37027'51.775"~ \$ 37025'44.811" 4-370-31-109.318" **Same feature, Not visible on 1977 photograph 3-37032'23,187" \$ 37031'04.213" \$37°30'48.35" DESCRIPTIVE REPORT CONTROL RECORD LOWell O. Neterer LISTING CHECKED BY D. Butler HAND PLOTTING CHECKED BY N.A. 1927 COORDINATES IN FEET COMPUTATION CHECKED BY Recovery neterindicates stack srare California m_1976. ZONE 7 ĭ 5 *ਜ* <u>ہ</u> # ä 3 ***** # ", 'n £ AEROTRI-ANGULATION POINT NUMBER destroyed DATE 5/18/77 DATE 327 9/20/77 340 330 332 336 341 337 DATE SOURCE OF INFORMATION (Index) 371213 2053 2052 1062 1034 1060 2039 2036 2099 2030 Page 2097 CM-7704 Ξ Ξ = 371221 ATRWAY-BEACON 34, 3-MILES 1958HWEST-OF-CENTERVILLEY NEWARK AEROLICHT, 1953 SOUTH RED HILL, 1896 MORTON SALT COMPANY, COMPANY, TANK, 1931 COMPANY TANK, 1958 NEWARK SLOUGH DRAW ARDEN SALT COMPANY A. C. Rauck, Jr. A. C. Rauck, Jr. STATION NAME FREMONT VISKING BAYSIDE CANNING RED TANK, 1931 GOOSE, 1931 STACK, 1931 DRAWBRIDGE 1931 NOAA FORM 76-4 TP-00538 COMPUTED BY TANK, LISTED BY MAP NO ⊀ K

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

XX.

NOAA FORM 76-41 (6-75)					U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD		Page 2 of 3
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	
TP-00538 /	CM-7704	/	N.A. 1927	tal	Mapping Div. A.M.C.
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT	COORDINATES IN FEET STATE CAlifornia	GEOGRAPHIC POSITION \$\phi LATITUDE \$\frac{1}{2} \text{TOMATHERS}\$	REMARKS
GUADALUPE SLOUGH	371222		#X	-,+	1354.3 495.5
ACROSS BAY TRANSMISSION TOWER 4, 1931	Page 1090	326	il.	λ 122°01'29,349" -	3 753.
GUADALUPE SLOUGH	=		χ=	\$ 37°27'50.646" ~	1561.4 - 288.4 -
ACKUSS BAI IRANSMISSIUN TOWER 3, 1931	1089		=ħ	λ 122001'24.056	591.2 - 883.3
UGH	Ε		±X=	\$ 37027'57.468"~	1771.7 - 78.1
ACKUSS BAY IKANSMISSION / TOWER 2, 1931	1088		=ĥ	λ 122001*18.641	458.1 - 1016.3
GUADALUPE SLOUGH BEND,	=		χε	φ 37o26'59.778	1842.9 - 06.8 -
SOUTH SIDE TRANSMISSION TOWER, 1931	1091	325	=ĥ	λ 122°02'04.228	103.9 < 71370.9 >
	=		χ=	φ 37°27'05.245".	161.7, 1688.0
SIDE TRANSMISSION TOWER,	1092		y=	λ 122001'59.919"~	1472.7 / 02.0 /
OF JAGELS SLOUGH,	-		χ=	\$ 37026'49.674".	1531.4 318.3
1ALL IRANSMISSION IOWER,	1084	324	ή=	λ 122002'42.971 ~	1056.3 418.6
MOUNT VIEW SLOUGH,	44		=χ	φ 37026'55,518" -	1711,6 - 138,2
WEST TRANSMISSION TOWER,	1107	323	y=	λ 122004'41.885"	1029.5 445.3
MOUNT VIEW SLOUGH,	Ε		አድ	φ 37o26'53.240" -	1641.3 208.4
EASI IKANSMISSION IOWEK,	1106		y=	λ 122004'34.465"-	847.2 627.7
MOUNT VIEW SLOI	11 11		χε	φ 37°27'01.77" -	54.6 . 1795.1 .
IKANSMISSION TOWER, 1931	1111	322	y=	λ 122005'02.42"	59.5 - 1415.3 -
	·		-χ	Ф	
			η= η=	χ.	ı
COMPUTED BY A. C. Rauck, Jr.		DATE 9/20/77	COMPUTATION CHECKED BY In Inchesion of Inche	• 1	DATE 9/23/77
LISTED BY A. C. Rauck, Jr.		DATE 5/18/77	Ler		DATE 8/19/77
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		a - + 0
		SUPERSEDES NO	RSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	TH IS OBSOLETE.	*// ·

DESCRIPTI MAP NO. JOB NO. TP-00538 CM-7704 SOURCE OF INFORMATION NIFORMATION NUMBER SOURCE OF INFORMATION SOURCE OF	VE REPORT CONTROL RECORDED GEODETIC DATUM N.A. 1927 COORDINATES IN FEET STATE CALIFORNIA X= Y= X= Y= Y= Y= Y= Y= Y= Y=	ORIGINATING ACTIV COASTAL MAI SGRAPHIC POSITION \$\phi\ LATITUDE\$ \$\lambda\ LATITUDE\$ \$\l	Page 3 of 3 pping Div., A.M.C. REMARKS 854.1 995.7 1346.4 128.2 1346.4 569.7
-00538 CM-7704 STATION NAME STATION NAME ESTON SLOUCH, SOUTH 1931 TT FIELD TANK, 1947 1958 H-111, 1932 JOB NO. CM-7704 CM-7704 SOURCE OF INFORMATION 371222 1104 1106 371221 1109	GEODETIC DATUM N.A. 1927 COORDINATES IN FEET STATE CALIFORNIA ZONE 3 X= Y= Y= X= Y= Y= Y= Y= Y= Y=	stal Mag	ng Div., REMAR 54.1 7 9 346.4 7 1 280.1 7 5
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TALL TRANSMISSION - Page 1079 1931 T FIELD TANK, 1947 1958 1958 1958 11009 -111, 1932 771222 1006	$ \begin{array}{c} x = \\ x = \\ $	37027'27,703"' 122005'54,783"' ~ 37024'41.522" ~ 122003'13.537" ~ 37031'48.3135" ~ 12200'02.8675" ~ 37030'26.8580" ~ 121057'57.7555"~	995.7 128.2 569.7
TALL TRANSMISSION Fage 1079 1931 T FIELD TANK, 1947 1958 1958 1958 1009 -111, 1932 1006	$ \frac{y^{=}}{x^{=}} $ $ \frac{y^{=}}{x^{=}} $ $ \frac{y^{=}}{x^{=}} $	122°05'54, 783" ~ 37°24'41, 522" ~ 122°03'13, 537" ~ 37°31'48, 3135" ~ 122°00'02, 8675" ~ 37°30'26, 8580" ~ 121°57'57, 7555"~	128.2
T FIELD TANK, 1947 " 1104 1958 371221 1958 371214 1958 1009 1-111, 1932		37024'41.522" / 122003'13.537" - 37031'48.3135" - 122000'02.8675" / 37030'26.8580" / 121057'57.7555" / 121057'57.7555" / 121057'57.7555" / 121057'57.7555" / 121057'57.75555" / 121057'57.75555" / 121057'57.75555" / 121057'57.75555" / 121057'57.75555" / 121057'57.75555" / 121057'57.757.755550" / 121057'57.757.75555" / 121057'57.757.75555" / 121057'57.757.75555" / 121057'57.757'57.7555' / 121057'57.757'57.7555' / 121057'57'57'57'57'57'57'57'57'57'57'57'57'5	
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H-111, 1932 / 371222	<i>x</i> = <i>y</i> =		1418.5 55.2
H-111, 1932 / 1006	y=	37024'40.106" /	1236.4 613.3
		122003'10.624"	261.3- 1214.2
* Station and Sub station	<u></u>		
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metric Plot Report.	ф ***		
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COMPUTED BY DATE 9/20/77	COMPUTATION CHECKED BY Lowell O. Neterer, Jr.		DATE 9/23/77
<u>1</u>	LISTING CHECKED B		DATE 8/19/77
	HAND PLOTTING CHECKED BY		DATE

COMPILATION REPORT TP-00538

31. DELINEATION:

Delineation was by instrument methods using the Wild B-8 stereoplotter. Compilation photography was adequate. The mean high water and mean lowerclow water lines were compiled graphically from the tide coordinated infrared ratio photos indicated on form 76-36B.

32. CONTROL:

Horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated July 22, 1977.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are not applicable to this project. See item #31.

35. SHORELINE AND ALONGSHORE DETAILS:

See item #31.

36. OFFSHORE DETAILS:

There was great difficulty in determining the MLLW line from the available infrared ratio photographs in the western portion of the manuscript. This line should be verified by the hydrographer.

Numerous charted piles and submerged piles offshore could not be located from the photography.

37. LANDMARKS AND AIDS:

Preliminary 76-40 forms consisting of one page of Navigational Aids and two pages of Landmarks for charts were prepared for field edit.

38. CONTROL FOR FUTURE SURVEYS:

None

TP-00538

39. JUNCTIONS:

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

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

Acomparison was made with the following 1:24,000 scale U.S.Geological Survey quadrangles:

Mountain View, Calif., 1961, photorrevised 1968 and 1973 Newark, Calif., 1959, photo revised 1968 and 1973 Milpitas, Calif., 1961, photo revised 1968 and 1973

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Survey charts: No. 18651; scale 1:40,000; 27th Ed.; July 3, 1976
No. 18652; scale 1:80,000; 16th Ed.; Mar. 26,1977

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD:

None

Submitted by:

for Joanne D. Roderick

Cartographer, Dec. 12,1978

Approved:

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

,	TP- 0	0538	
ROJECTION AND GRIDS	TITLE	HORIZONTAL CONTROL	PHOTOGRAMMETRIC PLOT REPORT.
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ETAIL POINTS AND PASS POINTS		1	
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F.M.	F.M.	F.M.	PHYSICAL FEATURES F.M.
ATER FEATURES	ALONG SHORE AND OTHER CULTURAL FEATURES	BRIDGES	ROADS
P M	F.M.	F.M.	F.M.
F.M.	RAILROADS	CONTOURS AND SPOT ELEVATIONS	GEOGRAPHIC NAMES
			F.M.
F.M.	F.M.	NA	r.M.
INCTIONS	LEGIBILITY OF THE MANUSCRIPT	COMPILATION REPORT	FIELD EDIT OZALID
F.M.	F.M.	F.M.	F.M.
OMPARISON WITH NAUTICAL CHARTS	COMPARISON WITH PRIOR SURVEYS	COMPARISON WITH EXISTING MAPS	FIELD PRINTS AND OTHER COPIES
F.M.	_NONE	F.M.	F.M.
EVIEWER	DATE	SUPERVISOR	DATE
Frank Margiótta	Dec. 1978	A.C. Rauck	Dec. 1978
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ANUSCRIPT NUMBERS IOTO HYDRO STATIONS EAN HIGH WATER LINE	FORMAT STICK-UP PLOTTING OF SEXTANT FIXES LOW-WATER LINE ALONG SHORE AND OTHER	MANUSCRIPT SIZE AIDS TO NAVIGATION	HORIZONTAL CONTROL LANDMARKS ALONG SHORE AND OTHER
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ANUSCRIPT NUMBERS OTO HYDRO STATIONS EAN HIGH WATER LINE STER FEATURES	FORMAT STICK-UP PLOTTING OF SEXTANT FIXES LOW-WATER LINE ALONG SHORE AND OTHER	MANUSCRIPT SIZE AIDS TO NAVIGATION ROCKS, SHOALS, ETC.	HORIZONTAL CONTROL LANDMARKS ALONG SHORE AND OTHER PHYSICAL FEATURES BRIDGES
OTO HYDRO STATIONS AN HIGH WATER LINE TER FEATURES	FORMAT STICK-UP PLOTTING OF SEXTANT FIXES LOW-WATER LINE ALONG SHORE AND OTHER CULTURAL FEATURES	MANUSCRIPT SIZE AIDS TO NAVIGATION ROCKS, SHOALS, ETC. PIPELINES, CABLES, ETC.	HORIZONTAL CONTROL LANDMARKS ALONG SHORE AND OTHER PHYSICAL FEATURES BRIDGES
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REMARKS

REVIEW REPORT TP-00538

SHORELINE

61. GENERAL STATEMENT:

An extensive final review was performed for this Final Classs III Map. See the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Alcomparison was made with the following 1:24,000 scale U.S.G.S. quadrangles:

Mountain View, Calif., 1961, photo revised 1968 and 1973
Newark, Calif., 1959, photo revised 1968 and 1973
Milpitas, Calif., 1961, photo revised 1968 and 1973
No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The intended contemporary hydrographic survey has been temporarily postponed pending the assigned 1981 Revision Survey of this Final Class III Map. See the Summary included in this Descriptive Report.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with N.O.S. chart 18651, 31st edition, July 12/80, 1:40,000 scale and chart 18652, 20th edition, April 16/81, 1:40,000/1:80,000 scale.

A continuous catwalk is apparent along many of the transmission lines compiled on this Class III Map. In several areas where the lines cross over navigable waters, the catwalks are discontinued but extend beyond the shoreline; subsequently, these features were delineated as piers.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Approved for forwarding:

Billy H. Barnes

Chief, Photogrammetric Branch, AMC

Chief, Photogrammetric Branch, Rockville George M. Ball

Chief, Photogrammetry Division

Walter S. Simmons

Deny L. Hancock

Final Reviewer

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7704 (San Francisco and San Pablo Bays, California)

TP-00538

Alviso

Alviso Slough

Calaveras Point

Charleston Slough

Coyote, Creek

Fremont

Guadalupe River

Guadalupe Slough

Hetch Hetchy Aquaduct

Green Pt. Landing (Added during final review)

Long Point

Moffett Channel

Mountain View Slough

Mowry Slough

Newark

Newark Slough

Plummer Creek

San Francisco Bay

Southern Pacific (RR)

Approved by:

Charles E. Harrington Chief Geographer, OA/C3x5

NOAA FORM 76-40	176-40					000	n die	DEPARTA	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
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he follow	The following objects t	VE NOT	been inspect	ed from sea	ward to de	termine the	ir value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
PR PROJE	CT NO.	JOB NUMBER CM-7704	SURVEY NUMBER TP-00538	3ER 3	DATUM N.A.	1927			METHOD AND DATE OF LOCATION	E OF LOCATION	
						POSITION	NOI		(See instructions on reverse side)	on reverse side)	CHARTS
		DESCRIPTION	Z		LATITUDE	rube	LONGITUDE	TUDE			AFFECTED
CHARTING		(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	rk or aid to navig re applicable, in	sation. parentheses)	/ 0	// D.M. Meters	/ 0	// D.P.Meters	OFFICE	FIELD	
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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.	IntersectionResectionField positions*	ts dat	OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75		FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	FUSITIONS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	
ods.	7 - Planetable 18 - Sextant require entry of method of	data by symbols as follows: - Photogrammetric is - Visually - Field identified		INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	J. Hancock, August 1981	J. Roderick		NAME	RESPONSIBLE PERSONNEL
**PHOTOGRAMMETRIC FIELD POSIT entirely, or in part, upon by photogrammetric methods.	<pre>II. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V~V\s.' and date. EXAMPLE: V-Vis. 8-12-75</pre>	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	FIELD (Cont'd) B. Photogrammetric field entry of method of lodate of field work an graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	Instructions No. 64,		7			RSONNEL
FIELD POSITIONS are dependent part, upon control established ic methods.	ALLY ON PHOTOGRAPH	<pre>ion RECOVERED aid which is also a tri- is recovered, enter 'Triang. recovery. Rec.</pre>	<pre>mmetric field positions** require method of location or verification, field work and number of the photo- ed to locate or identify the object. P-8-V 8-12-75 74L(C)2982</pre>		X REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	PHOTO FIELD PARTY HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)	ORIGINATOR	

NOAA FORM 70-40 (8-74)

SUPERSECES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND SXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-665-080/1155

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NOAA FORM 76-40	40			A N	IONAL OCE	DINA CINA	S. DEPART	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.		<u>.</u>	LANDA	ARKS I	LANDMARKS FOR CHARTS	RTS			HYDROGRAPHIC PARTY GEODETIC PARTY BHOTO FIELD BABTY	4RTY TV
X TO BE CHARTED	,		STATE		LOCALITY			DATE	COMPLLATION ACTIVITY	V T Y
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					POSITION	NO		(See instructions on reverse side)	on reverse side)	CHARTS
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NAME	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses)	dmark or aid to navig , where applicable, in	gation. perentheses)	`	D.M. Meters	`	// D.P. Meters	OFFICE E	FIELD	•
l .			;		42.2 ~		00.00	77B(P)2658		18651
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					11.00~		40.80	77B(P)2658		
STACK			3	37-31	339 ~	122-01	1002	Mar. 4, 1978		18651
TANK			3.	18-28	09.50		40.40	77B(P)2658,		
				1	293.	122-ó1	992 -	Mar. 4, 1978,		18651
STEEL TANK	(Arden Salt Company,	. Tank, 1931)	\		04.213	`	55.834	77B(P)2658		18981
		,	37	7-31	129.9	122-01	1371.2	Mar. 4, 1978		18652
TOWER	N.E. Tower of Four		3.	37-28	04.25	`	13.35~	77B(P)3730		14
		\			131 /	122-01	328 ~	Mar. 18, 1977		=
TOWER	(Guadalupe Slough Across Bay			,	57.468		18.641	77B(P)3730		ii
	Transmission Tower	2, 1931)	3.	37-27	1771.7	122-01	458.1	Mar. 18, 1977		11
TOWER	(Guadalupe Slough Across Bay	cross Bay			50.646		24.056	77B(P)3730		E
	Transmission Tower	3, 1931)	3.	7-27	1561.4	122-01	591.2	Mar. 18, 1977		11
TOWER /	(Guadalupe Slough Across Bay				43.928		29.349′	77B(P)3730 ~		- =
	Transmission Tower	4, 1931)	3.	37-27	1354,3	122-01	721.3	Mar. 18, 1977	•	14 :
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FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods	locat EXAMPI	4 - Resection / - Planetable 4 - Resection 8 - Sextant A. Field positions require entry of method of	d	<pre>I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field</pre>	OFFICE IDENTIFIED AND LOCATED OBJECTS 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75	. INSTRUCTIONS FOR ENTRIE	FORMS ORIGINATED BY QUALITY CONTROL . AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES J. Hancock, August.	FUSITIONS DETERMINED AND/OR VERIFIED J. Roderick	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	RESF
by photogramm	**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established	Enter 'V+V	EXAMPLE: Triang. Rec. 8-12-75	II. TRIANGULATION STATION RECOVERED ws: angulation station is recovered, enter 'Triang. Rec.' with date of recovery.	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	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,		FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)	NAME	RESPONSIBLE PERSONNEL

NOAA FORM 78-40 (8-74)

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SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-865-080/1155

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NOAA FORM 76-40	40	•	142	NATIONAL OCE	U.S	S. DEPARTM	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	Form 367.	LANG	LANDWARKS FOR CHARTS	FOR CHA	RTS			HYDROGRAPHIC PARTY GEODETIC PARTY	**************************************
XITO BE CHARTED		STATE	1	LOCALITY			DATE	A COMPLEATION ACTIVITY	* ± 1 × 1
TO BE REVISED	SED Coastal Mapping Div.			San Fra	Francisco	and	Nov. 28,		
TO BE DELETED		VA California	a		Pablo Bays			COAST PILOT BRANCH	I & REVIEW GRP. NCH
The following objects	ects H	X been inspected from sea	seaward to determine their value	termine the		as landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.	NO. JOB NUMBER	SURVEY NUMBER	DATUM						
	?			N.A. 19	1927		METHOD AND DATE OF LOCATION	TE OF LOCATION	
	CM-7704	TP-00538		POSITION	N		(See instructions on reverse side)	on reverse side)	CHARTS
	DESCRIPTION	Z.O	LATITUDE	UDE	LONGITUDE	rude		**	AFFECTED
CHARTING	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses)	ark or aid to navigation. ere applicable, in perentheses)	, ,	// D.M. Meters		// D.P. Meters	OFFICE	FIELD	
TOWERS	Om N. side of Guadalupe Slough	pe Slough		11.8	`	55.1	77B(P)3730		78651
			37-27	364 ~	122-01	1353 ~	Mar. 18, 1977		18652 /
TOWERS	(Gradalina Slouds, South	uth Side/	`	05.245	`	59.919	77B(P)3730		u
	Transmission Tower, 19	1931)	37-27	161.7	122-01	1472.7	Mar. 18, 1977		- 11
	Not visible on 1977 photography:	hotography:	\						ц
TOWER	apparently destroyed.		37-26.7		22-03.8				=
TOWER /	Not visible on 1977 photography;	hotography;	. 4		\				=
	apparently destroyed.		37–26.7		22-03.8				=
TOWER	(Mount View Slough, Ed Transmission Tower, 19	East 1931)	37-26	53.240° 1641.3°	122–04	34.465	77B(P)3731 / Mar. 18, 1977		= =
TOWER /	(Mount View Slough, W	West 1931)	37–26	55.518-	122-04	41.885	77B(P)3731 — Mar. 18, 1977		= =
		,							\
TALLER / TOWERS	(Charleston Slough, So Transmission Tower, 19	South Side, Tall 1931)	37-27	27,703 854,1/	122-05	54.783 1346.4	77B(P)3731 / Mar. 18, 1977		18651 18652 _
TOWER	(East of jagels slough, transmission tower, 1931)	h, tall 931)	37-26	49.674	122–02	42.971 1056.3	77B(P)3730 Mar. 18, 1977		18652
TOWER /	South tower of 2		37-26	47.3 / 1459 /	122-02	52.4 1289	77B(P)3730 / Mar. 18, 1977		18652
									30
		T	$\Big]$						



	RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD		HYDROGRAPHIC PARTY
		GEODETIC PARTY OTHER (Specify)
E-CATALONS DETERMINED AND OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
	J. Roderick	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL		X REVIEWER
AND REVIEW GROUP AND FINAL REVIEW		QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES	J. Hancock, August 1981	REPRESENTATIVE
	HOD AND DATE OF	LOCATION
OFFICE IDENTIFIED AND LOCATED OBJECTS	FIELD (Cont'd) B. Photogra	mmetric field positions** require
Enter the number and date (including month, day, and year) of the photograph used to	month, entry of date of	method of location or verification, field work and number of the photo-
identify and locate the \circ bject. EXAMPLE: 75E(C)6042	graph us EXAMPLE:	ed to locate or identify the object.
8-12-75		8-12-75

FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field Located P - Photogrammetric Vis - Visually

Verified

Traverse

Triangulation

Field identified

Theodolite

Planetable

Intersection

Resection Sextant

Field positions* require entry of method of location and date of field work. F-2-6-L

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

8-12-75

74L(C)2982

TRIANGULATION STATION RECOVERED angulation station is recovered, enter 'Triang. Rec. with date of recovery. **EXAMPLE:** When a landmark or aid which is also a Triang. Rec. 8-12-75 tri-

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH EXAMPLE: Enter 'V+Vis.' and date. 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)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.



NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. 170-00538

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.

CHART	DATE	CARTOGRAPHER	REMARKS
		O	Full Part Before After Verification Review Inspection Signed Via
18651	5/13/82	10 C Lans	Drawing No. 39 Critical con only
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		and www	rull Day Defa Afra Validation by the state of a division of the state of the of t
18652	1-03-83	S. C. Larson	Full Part Defore After Verification Review Inspection Signed Via
			Drawing No. 25
	#	·	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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<u>-</u>	J. C. C.		
			Full Part Before After Verification Review Inspection Signed Via
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