

# Graphic Control

Diag'd. on Diag. Th. No. 5530-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey TOPO GRAPHIC CONTROL

Field No. BO-B-47 Office No. T-7066a (Revised 1948)

LOCALITY

State California

General locality San Francisco Bay

Locality Point Eichmond

194 7-148

CHIEF OF PARTY

W.M.Gibson

LIBRARY & ARCHIVES

DATE Dec.14, 1949

B-1870-1-0

Craphic Centroi

# DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

# TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

Field No. BO-B-47 (1948 revision)  Scale 1/10,000  State California General locality San Francisco Bay  Specific locality Point Richard  Dates: Survey began September 23, 1948 Completed September 25, 1948  Photography Supplemented by ground surveys to  Project No. C5 - 256 Instructions dated 16, Bovener 1940 & 24 april 1947  Vessel or Bonia Chief of party N.M. Cibern  Field work by 1.7. Boodcock (1948 revision)  Final inking by Office work by P.A. Weber (1948 revision)  Ground elevations in feet above M. H. W. or  Contours  Approximate contours by Planetable Multiplex  Remarks  Remarks			-	REGISTRY No. T=7066 auraphic Control
State California General locality San Francisco Bay  Specific locality Point Richard  Dates: Survey began September 23, 1948 Completed September 25, 1948  Photography Supplemented by ground surveys to  Project No. C5 - 256 Instructions dated 16, Roventer 1940 & 24 April 1947  Vessel Party or Chief of party N.M. Gibson  Field work by L.F. Woodcock (1948 revision)  Final inking by P.A. Weber (1948 revision)  Ground elevations in feet above M. H. W. or  Contours  Approximate contours by Planetable Multiplex Interval ft.  Remarks				Field No. BO-B-47 (1948 revision)
Dates: Survey began September 23, 1948 Completed September 25, 1948  Photography Supplemented by ground surveys to Project No. C5 - 256  Instructions dated 16, November 1940 & 24 April 1947  Vessel or Boule Chief of party M.M. Gibean  Field work by L.F. Noedcock (1948 revision)  Final inking by P.A. Neber (1948 revision)  Ground elevations in feet above or Contours  Approximate contours by Planetable Multiplex Interval ft.  Remarks			;	Scale <b>1/10,000</b>
Dates: Survey began September 23, 1948 Completed September 25, 1948  Photography , Supplemented by ground surveys to	State	California	General locality	San Francisco Bay
Project No. C5 - 256  Instructions dated 16, Bovider 1940 & 24 april 1947  Vessel or Bovie Chief of party W.M. Gibsen  Field work by L.F. Woodcock (1948 revision)  Final inking by P.A. Weber (1948 revision)  Ground elevations in feet above M. H. W. or  Treetop elevations by Planetable Multiplex Interval ft.  Remarks	Specific locality	y Point Richm	end.	·
Project No. C5 - 256  Instructions dated 16, Hoveber 1940 & 24 April 1947  Vessel on Bonie Chief of party W.M. Gibson  Field work by L.F. Hoodcock Office work by P.A. Weber (1948 revision)  Final inking by P.A. Weber (1948 revision)  Ground elevations Treetop elevations in feet above M. H. W. or  Contours  Approximate contours by Planetable Multiplex Interval ft.  Remarks	Dates: Survey	began September	23. 1948 Completed	September 25, 1948
Vessel   or Bonie Chief of party W.N. Gibsen Field work by L.F. Woodcock (1948 revision)  Final inking by P.A. Weber (1948 revision)  Ground elevations   in feet above   M. H. W. or    Treetop elevations   by   Planetable   Multiplex   Interval    Form lines   Remarks   ft.	Photog	raphy	, Supplemented by ground	surveys to
Field work by L.F. Woodcock (1948 revision)  Final inking by P.A. Weber (1948 revision)  Ground elevations Treetop elevations approximate contours  Approximate contours Form lines  Remarks  Office work by P.A. Weber (1948 revision)  M. H. W.  or  Interval ft.	Project No	CS - 256	Instructions dated 16.	November 1940 & 24 April 1947
Field work by L.F. Woodcock Office work by P.A. Weber (1948 revision)  Final inking by P.A. Weber (1948 revision)  Ground elevations Treetop elevations in feet above M. H. W. Or Or Treetop elevations  Contours Approximate contours by Planetable Multiplex Interval ft.  Remarks	Vessel } or	Bowie	Chief of party	Cibeen
Final inking by  P.A. Weber (1948 revision)  Ground elevations   in feet above   M. H. W. or    Contours   Approximate contours   by   Planetable   Multiplex   Interval   ft.    Remarks   Form lines   Function   ft.    Remarks   Form lines   Function   ft.    Remarks   Function   f	u /	L.F. Woodcock	Office work by P.A.	
Ground elevations   in feet above   or	Final inking b	A	P.A. Weber (1948	revision)
Remarks	Ground elevati Treetop elevati	ions in feet abov	e M. H. W.	
	Contours Approximate co Form lines	ontours } by {	Planetable   Multiplex   Interval	ft.
	Remarks			
	<b></b>		· 	
	<b></b>			

# Project CS - 256 Descriptive Report to Accompany the 1948 Revision of Graphic Control Sheet BO-B-47

#### Point Richmond

December 1948

Instructions dated 11/16/40 Supp. Instructions dated 4/24/47

The purpose of this revision was to check the original sheet where it was found to be in disagreement with the air photo compilation of the area. (T-5928,1941-45)

#### METHODS:

The first step in this revision was to correct the old projection. The original pencil projection, where it was still visible, was found to be correct, but had been incorrectly inked. The inked projection was erased where necessary and corrected. When the projection had been properly inked, the control stations were found to have been plotted correctly.

The actual field work consisted essentially of setting up the plane-table at various points, taking a three point fix, then rodding in the nearby topographic signals and taking cuts to the distant ones. A small amount of topographic detail in the vicinity of each set-up was rodded in. Plane-table set-ups were made at the following places: At Point San Pablo 3, 1940, on the catwalk off-shore from signal TRY, on the dock at point Orient near signal FAR on the navy fuel dock at Holate Point, on the hill just inshore from the ferry slip at Castro Point, and twice on the Standard Oil Co. dock south of Castro Rocks. This dock is now nearing completion and has been delineated in its final form.

It was found necessary to re-scale the D.M.'s and D.P.'s for all topographic signals on the sheet. Apparently they were originally scaled after the projection had been incorrectly inked. Alist of the recoverable topographic signals accompanies this report.

Landmarks \$1028 (49)

Lorin F, Woodcock
Lieut. U.S.C. & G.S.

Approved:

W.M. Gibson Chief of Party

These revisions supersede the common area (or features) on air photographic survey T-5928 (1941-45). These revisions appear on contemporary hydrographic survey H-7620 (1947). No further review by the Hydrographic Surveys Section is necessary at the present time.

2. A.Dinomore 9/11/51

(1)
Graphic Control Sheet BO-B-47 (revised 1948)
New Locations of Recoverable Topo Signals

NAME	I,ATI	TUDE	METERS	<u>LONGI</u>	TUDE	METERS
Try	o 37	57	1216	o 122	25	733
Fit	H	11	1063	ff.	t†	<u>6</u> 92
Fix	, m	n	1074	n	ti	668
Fox	n ´	Ħ	1415	11	11	89 <b>7</b>
Jug	. 11	11	1568	17	11	786
Fop	Ħ	17	1271	n	ŧŧ	828
Tub	11	ti	1126	11	Ħ	265
Mal .	ţı	\$1	1341	11	11	830
Out	11	11	1362	ij	II,	987
Fig	n	Ħ	1601	9	tt	950
Cod	. 11	tt.	1632	11	Ħ	926
Far	11	11	602	ţţ	II	929
Fat	II.	· III	758	. 11	11	945
Few	!!	II	760	Ħ	n	927
Fog	11	Ħ	815	11	11	819
Arm	Ħ	(1	807	tt	11	522
Eel	17	. 11	74	ţţ	tt	795

NAME	LAT	TUDE	METERS	LONGI	TUDE	METERS
Mol /	o 37	1 56	1578	0 122	25	831
Cup /	11	u	1480	11	11	814
Dim	п	11	1470	11	Ħ	795
Dip	\$1	n	1476	H	6	699
Doc	ſŧ	Ħ	1483	11	ft	601
Duo	Ħ	11	1490	įti	Ħ	501
Oil	u	11	1541	11	11	377
Hut	11	Ħ	1499	11	11	382
Zak /	11	it.	1282	Ħ	Ħ	802
Four	H	ff	1185	11	11	598
Nor	37	57	195	II .	ıı	18
Pad	Ħ	II	93	122	24	1455
Don	11	11	55	. 11	11 .	1322
Fly	<b>3</b> 7	· 56	1759	" "	11	1370
Ego	37	57	74	122	25	266
Eat	37	56	1714	. 11	11	382
Ice	11	11	1602	11	Ħ	32
Hex	. #	11	1643	ni i	ø	149

NAME		TUDE	METERS	LONGI	TUDE	METERS
Ant	o 37	• 56	1281	0 122	24	982
Dif	11	и ,	· L316	11	",n	848
Ear	11	ft .	1700	**	<b>11</b>	542
Gas	II	11	863	Ħ	ŧį	756
Bum	11	II	704	n	fi	228
Dug	11	II	740	Ħ	n	155
Тор	11	<b>11</b>	452	11	tτ	75
Cow	, ti	11	142	II	11	598
Tab	37	5 <b>5</b> .	1692	11	. 11	744
Tan	11	<b>H</b>	1496	122	23	1301
Castro Rk.	II	H	1786	122	24	1343
Castro Rk.	11	ti	1802	11	tt.	1455
Lift	37	56	312	Ħ	11	1388
Bob .	1/	ti .	403	ti	. 11	1159
Big	11	11	397	п	11	1105
Box	ĮŢ	ti i	364		. 11	1160
Воо	tt	11	350	ri	n	1105
Cat	11	# 1	342	ti	11	1123
Cog	II	**	389	11	tt.	1078

NAME	LATI	TUDE	METERS	LONGI	TUDE	METERS
Car	37	56	329	122	24	:1159
Cab	ti	11	319	n	n n	1181
Daw	11	11	409	ti	11	1088
Deb	11	Ħ	289	. 11	<b>11</b>	1042
200	11	11	322	n	11	978
Add	37	55	1211	122	25	1091
Fop	11	11	1239	II	u	1098
Abe	rt	fi	655	122	24	792
stay	11	11	720	ti	11	722
Bed	11	tt.	880	н	11	830
Alp	15	11	628	II.	11	790
Aim	Ħ	11	612	tt	11	641
Azo	t#	Ħ	735		11	698
Roa .	n .	ti	975	11	n	699
Bag	11	††	673	11	77	538
Bat	T†	tī	819	tt	11	795
Lag	. "	11	929	:1	Ħ	396

Scaled by: P.A. Weber Checked by: L.F. Woodcock Form 504

# U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

			- 44
Type of Survey	Topography	11.	
	SUPERCEDED BY Office No	1948	Rev
	LOCALITY		
State Californ	ia	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
General locality Sa	n Francisco Bay		
Locality Point R	lichmond		
	194 7		
C	HIEF OF PARTY		
W. M. Gi	bson		va
LIBRA	ARY & ARCHIVES		
DATE D	EC 1 4 1949		

B-1870-1 (1

# DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

# TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

	REGISTRY No. 7-7066 a Graphic Control
	Field No. BQ-B-47
	Scale
State California	General locality San Francisco Bay
Specific locality Point Richmond	
Dates: Survey began July 18,	1947 Completed September 26, 1947
Photography	, Supplemented by ground surveys to
Project No. CS - 256	Instructions dated 16 November 1940 24 April 1947
Vessel or Bowle	Chief of party W.M. Gibson
Field work by W.M. Gibson	Office work by W.M.G. W.C.R. C.J.B
Final inking by H. A. Knapp	P
$\left. egin{array}{ll} \mbox{Ground elevations} \ \mbox{Treetop elevations} \end{array}  ight.  ight.$	M. H. W.
Contours Approximate contours Form lines  Plan Mul	tetable   ltiplex   Interval ft.
Remarks	
•	
	'

# Project CS - 256 Descriptive Report to Accompany Graphic Control Sheet BO-B-47

Instructions - 16 November 1940

Scale 1/10,000

Supplemental Instructions - 24 April 1947

This survey was executed by W.M. Gibson for the purpose of providing additional control for inshore hydrography and for deliniating changes in the shoreline and docks.

The control of Richard (1932)

Red Rock (1851) High Hill 3 (1947) San Pablo Ridge (1897)

Pt. San Pablo 3 (1940)

East Brothers L.H. (1932)

Each control station except Red Rock and East Brothers L.H. was occupied and cuts to prominent objects taken. This was supplemented by cuts and rod readings from 3-point fixes. There was no traverse except on the Standard Oil Pt. Richmond Dock when it was necessary to make a few short traverses to get around buildings and construction equipment. This latter equipment was so numerous that clear sights to the dolphins north of the long dock were difficult to obtain and the locations on this sheet for those dolphins should be verified with the final plans or air photos.

The The following triangulation stations were not recovered:

Pt. San Pablo 2 (1897)

Sholin (1940)

0il (1916-17)

The Standard Oil long dock at Point Richmond is under construction and an effort was made to deliniate its final form. However, the present condition did not permit such with certainty. Plans of the final form obtained from Standard Oil Co. of California accompany Hydrographic Sheet BO-1247. It is believed that two of the smallest piers at the south end will be removed.

A separate report is being submitted on geographic names for the entire 1947 project area.

The railroad shown on Planimitric Sheets Nos. T-5928 North and South halves between the Rock Crusher and Castro Point was checked visually and found to be correctly shown.

The Richmond-San Rafael Ferry has been improved since the air photo coverage and its present position rodded in from two three point fixes.

A small dock has been built for small boats just north of the Molate Fuel Dock.

Two of the largest of Castro Rocks were located by intersections. A smaller rock to the westward was not located because of being submerged at times.

The Standard Oil Co. of California plans referred to above are as follows:

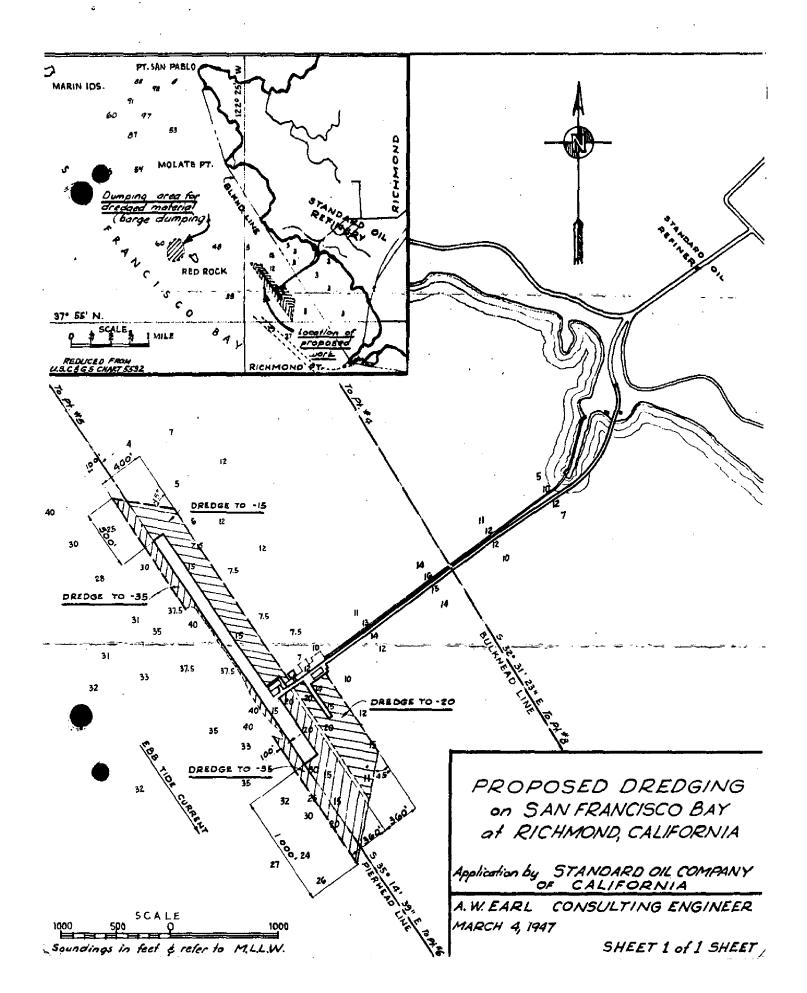
General Plan A-52601 Dredging Modernization of Long Wharf. Scope of Work Plan A-52571-1

Plan of the Molate Fuel Dock is also enclosed with BO-1247. It is P.W. drawing C-11014, 12th Naval District, San Francisco, Public Works Department U.S. Naval Fuel Annex Molate Point, Richmond, California.

The topography was started in July so as to provide control for inshore hydrography in the vicinity of the Standard Oil dock Castro Point, and Molate Point. It was then discontinued until 'completion of the triangulation and establishment of HIGH HILL 3 (1947). The work in the vicinity of Point San Pablo and Pt. Orient was then resumed and completed in latter part of September.

A list of recoverable planetable positions on form No. 524 accompany this report.

Wm Hibson chief of Party



Bowl

WAR DEPARTMENT
CORPS OF ENGINEERS
Office of the District Engineer
SAN FRANCISCO DISTRICT
74 New Montgomery Street
San Francisco, California

REGEIVER, U. S. C. & C. S.

MAR 1 8 1947

SAN FRANCISCO, CALIF.

14 March 1947

# PUBLIC NOTICE NO. 47-40

TO WHOM IT MAY CONCERN:

Application has been made by the Standard Oil Company of California, Standard Oil Building, San Francisco 20, California, for a War Department permit to remove approximately 400,000 cubic yards from an area adjacent to the Standard Oil Company's long wharf in San Francisco Bay at Richmond, California, and to deposit the material in deep water west of Red Rock as shown on the reverse side of this public notice.

A permit issued by the War Department does not give any property rights, either in real estate or material, or any exclusive privileges, and does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State, or local laws or regulations; nor does it obviate the necessity of obtaining State assent to the work authorized. It merely expresses the assent of the Federal Government in so far as concerns the public rights of navigation.

Interested parties are invited to submit in writing, in triplicate, any objections based on the interests of commerce and navigation that they may have to the proposed work. Objections should be forwarded so as to reach this office not later than 11:00 A.M., 1 April 1947.

Colonel, Corps of Engineers Acting District Engineer

rorm 567 April 1945

# DEPARTMENT OF COMMERCE





STRIKE OUT ONE **HOXPERDELEXED** TO BE CHARTED

Ship Borde Onkland, California

. 194R 15 Jenuary

I recommend that the following objects which have (have xnow) been inspected from seaward to determine their value as landmarks, be charted on (halotadox xnow) the charts indicated.

The positions given have been checked after listing by P.A. Heber

								H.H. Gibson	bson			Chief	Chief of Party.
STATE	• •		-		2	POSITION			METHOD		THA	TAAH:	
			1	LATITUDE		LONGITUDE	TUDE		LOCATION	DATE OF	е сну	380	CHARTS
CHARTING		SIGNAL	0		D. M. METERS	-	D. P. METERS	DATUM	SURVEY No.	7	HARBOI	OFFSH	AFFECTED
L.H.	East Erothers Island [Arhthouss	<u>B</u>	û	671 65	11.2%. 1.	20-201	1387.0	1027		101.7	<u>&gt;</u>		66.33
	Holate Fointhinarf			+	╀		*****	V 22		127	4		22.75
Light	P.O. Light List 110, 449	To I	33	56 158	1582.0	122-25	842.0	1927	Topo	1947	×		5532
	Molate Point Charf			-	₩-			M.A.					
Light	P.C. Light List No. 448	Zek	37	56 127	1276.0	122-25	815.0	1927	Tono	1947	×		5532
	Lone tree about 30 metero north				<del></del>			4.53					
Tree	of Inghore and of Molate Pt. thark Oil	110	37	56 154	1547.0 1	122-25	374.0	1927	Sono	1947	<b>&gt;</b> <		5532
	Spar about 220 meters S.B. of							R.A.					
Spor 4	S. end of Molute Point Unarf	Pour	37 5	56 118	1185.0	122-25	0.009	1927	Robo	1947	rΚ	_	5532
- 1-	Spall white storage tank on low				├			H.A.					
Tank	hill at inner and of Richmond-	200	37	56 32	323.0	122-24	978.0	1927	Tons	1947	×		5532
	San Rofael Ferry slip				<b> </b>								
	Light & fogsigned on the foot stoel							N.A.			-		
Light	structure corner of Standard O'l	Alb	37 9	55 65	627.0	122-24	789.0	1927	Toro	1947	×	_	5532
	Dock.	•			<del></del>			-					
	Ball on stoel structure on Fler			-				N.A.			<u> </u>		
PS	leading to unior Std. Oil Co. dock Log'	LOG	37	95 9	930.0	122-26	395.0	1927	Roso	197.7	Х	_ 	5532
	High radio tower on top of Micholi	}	· ·			•		U.A.		· •			
H H	Knob Etchrond	Mast	37	55 20	407.2	122-22	1285.0	1929	T.	19/.7	×		4430
  -  -	Red Rock Fog olgnal (overturned)			_				11.41		è	\ <b>!</b>	Ľ.	
5.0	P.C. Light List No. 446	Pop	37	55 123	1236.0	122-25	1097.0	1927	Pomor	1947	×		5532
Rock	Goetro Rock		37	55 180	1603.0 122-24	22-24	1453.0	1927	1000 1000	19/7	 		5532
Č				-				U.A.			- !		
HOCK	Castro nock		33	55 176	1785.0	122-2k	1344.0	1927	Topo	197.7	84		5532

aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

# NAUTICAL CHARTS BRANCH

SURVEY NO. T. 7066a

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1/27/50	5832	X F. Stegmon	Before Affer Verification and Review
8-4-55	5532 Rec	with J. M. a.	Before After Verification and Review
11-16-55	- 553×C	lartlet Steering	Between After Verification and Review Molate Pier only
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			•
			·

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

# 7066b

Diag'd. on Diag. Ch. No. 5530-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey TOPO
Field No. B0-C-47 Office No. T-7066b
LOCALITY
State California
General locality San Francisco Bay
Locality Richmond Inner Harbor
194 7-148
CHIEF OF PARTY
W.M.Gibson
LIBRARY & ARCHIVES
DATE 14 Dec. 1949

B-1870-1 (I)

# DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

# TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

		REGISTRY No. T-7066 b
		Field No. 10 - C - 47 (1948 Bevision)
		Scale _1/5000
State	California	General locality San Francisco Sey
Specific l	locality	chaged Issuer Herber
Dates: S	urvey began	September 1948 Completed29, September 1948
P	hotography	Supplemented by ground surveys to
Project 1	No <b>CS 256</b>	Instructions dated
Vessel	or Bode	Chief of party
		Office work by P.A. Nober & L.F. Needeeck (1948 periales)
Final ink	• • •	R.A. Weber (1946 revision)
Ground e Treetop e	$\left. egin{array}{l} egin{arr$	above M. H. W.
Contours Approxin Form line	nate contours by	{ Planetable Multiplex } Intervalft.
Rем	ARKS	
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Project CS - 256
Descriptive Report to Accompany the
1948 Revision of Topographic Sheet BO-C-47

Richmond Inner Harbor

December 1948

Instructions dated 11/16/40 Supp. Instructions dated 4/24/47

The purpose of this revision was to check the original sheet where it was found to be in disagreement with the air-photo compilation of the area. (T-5927 \$7-5928,1941-46)

#### METHODS:

The first step in this revision was to correct the old projection. The original pencil projection, where it was still visible, was found to be correct, but had been incorrectly inked. The inked projection was erased where necessary and corrected. When the projection had been properly inked, the control stations were found to have been plotted correctly. In addition, the scaling of recoverable topographic stations in 1947 was found to check, which indicates that the scaling in 1947 was prior to the incorrect inking of the projection.

Field work on this revision was started by running a plane-table traverse westward from Richmond Pier Bldg. (1916-17). The plane-table was located to start the traverse by setting on line with Richmond Pier Bldg, (1916-17) and Brooks Island 2 (1905), orienting on Brooks Island 2 (1905) and taking a rod shot on Richmond Pier Bldg. From this location cuts were drawn to all visible topographin signals to the westward.

The traverse was then run re-locating signals EBB, DAY, CUE, GAG, FAR, GEM, HAG, YEA, KED, JAP, DIP, WAR, and YAM. The shape and location of the wharf and ferry-slips were also changed.

The next set-up was made on the wharf near topographic signal PAL. The plane-table was located by a three point fix on Brooks Island 2, Harbor (U.S.E.) and Ford Motor Co. Water Tank, with a resection on Radio Tower (1947) as a check on the fix. From this set-up signals LAY, PAL, PAR, PEP, PIE, PET and PIN were re-located, and the location of the ship-ways was changed.

A list of the recoverable topographic stations which were re-located accompanies this report.

Landmarks £1028 (49)

Iorin F. Woodcock Lieut. U.S.C. & G.S.

Approved:

W.M. Gibson Chief of Party

(1)
T-1666 Craphic Control Sheet BO-C-47 Revised 48
New Locations of Recoverable Topo Signals

NAME	LATI	TUDE	METERS	LONGI	rude_	METERS
Pin 🗸	<b>3</b> 7	55	268	0 122	21	1094
Pie 🗸	11	n	266	ti	11	1128
Pet 🗸	t <b>t</b>	11	273	11	n.	1165
Pep /	. 11	H.	267	11:	Hi	1201
Par 🗸	n	H*	269	11:	Ħ	1237
Pal V	18	11	269	Ħ.	11	1273 -
Lay 🗸	u ·	11	265	भाः	11	1310
- Cue V	37	54	1169	122	23	418
Day 🗸	11	ır	1074	11	. 11	499
Ebb 🗸	u.	ıı	1073	a	a	546
Gem 🗸	131	n	986	11	11	576
- Far 🗸	11	f1	992		ú,	585
Ked ✓	tt	181	904	#*	Ħ	720
Jap 🗸	<b>1</b> 1:	. <b>11</b> :	916		Ħ	724
Hag V	u	11	919		ıı	622
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#### Form 504

# U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Topography
SUPERCEDED BY 1948 REVISION
Field No. BO-C-47 Office No.

# LOCALITY

State California

General locality San Francisco Bay

Locality Richmond Inner Harbor

194 7

CHIEF OF PARTY

W. M. Gibson

LIBRARY & ARCHIVES

DATE

B-1870-1 (L

# DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

# TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

## Project CS-256

W.M. Gibson, Chief of Party April 21, 1947 to May 5, 1947

# Descriptive Report to Accompany Topographic Sheet BO-C-47

BATE OF INSTRUCTIONS- 16 November 1940. Supplemental Inst. April 24,1947 This survey was executed for the purpose of establishing control for a 1/5000 scale hydrographic survey of Richmond Inner Harbor. When approaching the harbor the most prominent objects are, Ford Motor Company Water Tank (1942) and the high radio tower on top of Nicholl Knob. The brick stacks at the old brickyard in the bight northeast of Point Richmond are not very conspicuous except when inside the training wall.

The training well and Brooks Island were not occupied. The training

wall appears to be correctly charted.

Control for this survey consisted of: FORD MOTOR COMPANY WATER TANK (1942)

HARBOR (U.S.E.) 19292

BROOKS ISLAND 2 (1905)

RICHARD (1929)

CORNER RICHMOND PIER BLDG.

New positions of RICHARD (1929) and BROOKS ISLAND 2 (1905) were determined by the party in charge of Sam Hand engaged on the cooperative East Bay Triangulation Project in 1947 but were not available at the time of this survey. The Radio Mast on top of Nicholl Knob was located by triangulation by a Party from the Bowie in 1947 while engaged on reestablishment of missing control north of Point Richmond, after completion of this survey. The following triangulation stations could not be found: BELL NO. 1 (1929)

BELL NO. 2 (1929) \_ RICH (1929)

Very little traverse was used on this survey. All triangulations stations were occupied and cuts taken to prominent objects. These locations so determined were supplemented by additional cuts or actual rod readings taken from plane table positions established with 3-point fixes. Along the shore north of Point Richmond a short traverse was run with resections from the topographic position of the radio mast on Nicholl Knob and triangulation station CORNER RICHMOND PIER BLDG. as checks. Later it was found that the topographic position of the radio mast was in very close agreement with the triangulation position. Signal "Trip" located near the plotted position of RICH (1929) was also used for resections along the shore of the bight between Point Richmond and Shoal Point. Signal Trip was an Army Engineer tripod built over a 2" - iron pipe driven in the ground. This pipe may be an Army Engineer station for which a description and position was not available. Their condition surveys show a station there called Mon. 13A (C. of E.). This signal was also used for some resections on the east edge of the sheet where the topo alidade would not reach RICHARD (1932). The position of BELL NO. 1 may be incorrectly listed as a small bell was found at the southwest corner of the drydocks and is snown on this sheet as

topographic signal "Bell". No bell was found on the shore corresponding to BELL NO. 2 but the whole shoreline of this area including Santa Fe channel was heaped high with debree, wreckage and junk left over from shippard sctivities.

The Kaiser Shippards were mostly in a caretaker status and their disposition undecided or unknown. Some of them have since been purchased from War Assets by Parr Richmond Terminal Corporation 26 (1941-46)

During the progress of this survey planimetric sheets scale 1/10,000 were received. Much interior detail shown on those sheets were omitted from this survey in as much as this survey was primarily for control for hydrography. The railroad shown on T-5928 as stopping about 470 meters south of RICH (1929) should be extended west to the old Brickyard closely paralleling the beach and passing close to the rock crusher (Signal "WAX").

Landmarks shown on T-5928 are judged to be satisfactory with the addition of the radio tower on top of Nicholl Knob at station RICHARD (1932). Nicholl Knob is a name in local usage for the high prominent hill on which RICHARD (1932) is located. Authorities for "NICHOLL KNOB" are Edward A. Hoffman, Director of Public Works, City of Richmond, John Galvin, Editor and Publisher, Richmond Independent, Bertel K. Peterson Auditor, City of Richmond. Nicholl Knob is in itself the most prominent landmark, and its geographic name appears to have been overlooked by the Air Photo party. A separate report on Geographic names for the 1947 Project area is being submitted.

The line of poles extending southward from the Ford Motor Company

Assembly Plant have no wires.

There are numerous dolphins west of the Santa Fe Ferry slip at Point Richmond that were not located on this sheet. Hydrographic locations of them were obtained on sheet BO-05347. (H-7623,1947)

A list of recoverable topographic stations on form 524 accompany

this report. (filed in Div. of Photogrammetry under T-7066b)

A set of plans showing details of the Kaiser Yard at Point Potrero accompanies the topographic sheet. (See Bp. 40030, 1945)

W.M. Gibson

Lieut. Comdr. U.S.C.& G.S.

Topographer

U. S. COAST AND GEODETIC SURVEY



# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Ship Bowie Cakland, California

I recommend that the following objects which have (nine been inspected from seaward to determine their value as landmarks, be charted on (uzlarational) the charts indicated. TO BE CHARTED STRIKE OUT ONE TOXBE OUT ONE

P.A. Meber The positions given have been checked after listing by \_

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			LA	LATITUDE	LONG	LONGITUDE		LOCATION	DATE			CHARTS
CHARTING . NAME	DESCRIPTION	SIGNAL	-	D.M.METERS		D. P. METERS	DATUM	BO C-67	LOCATION	HARBO	HE330	
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Tank(E)	Tank(Eley) Ford Hotor Co. Uater Tonk		37 54	4 1067	12-221	6.505	N.∆.	Tri	1942	×	55	5532
# 439	Small light at S. tip of west wall	4 1	i c		199 91	7011		6	707.0	4	ŭ	EFOO
S 10	Spar beaken about 104 meters 5. of S. if comer ford forton Co. Properties			<u>.                                    </u>	122-21	87.8	1927	Topo	1967	< 1×	2 %	5532
Stack	Square briok stock at old brickvard (Higher of two)	Vel			122-22	1020	N.A.	Tono	1947	l M		5532
Stack	Slender stack over Power House at A.T & S.P.R.R. Ferry Terminal	qqu		<del> </del>	122-23	2775	N.A.	Rono	2761	×	25	5532
a a a	P.C. Light No. 433	End	1	F	122-23	672	M.A.	Pono	1947	, bil	5.5	5532
BW 2A	P.C. Light No. 435	Dix			122-21	1394	M.A. 1927	Topo	1947	×	55	5532
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

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#### DIVISION OF CHARTS

#### REVIEW SECTION - NAUTICAL CHART BRANCH

# REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-7066b

FIELD NO. BO-C-47

California, San Francisco Bay, Richmond Inner Harbor Surveyed in April - May 1947 & Sept., 1948 Scale 1:5,000 Project No. CS-256

# Plane Table Survey

# Aluminum Mounted

Chief of Party - W. M. Gibson
Surveyed by - W. M. Gibson and L. F. Woodcock
Inked by - W. M. Gibson and P. A. Weber
Reviewed by - T. A. Dinsmore, 7 April 1950
Inspected by - R. H. Carstens

## 1. Control

Previously established triangulation stations furnished the basic control for this survey.

The purpose of the survey was to establish supplementary control for hydrographic surveys in the vicinity and to show such waterfront improvements or shoreline changes that have taken place in the area.

# 2. Adjoining Surveys

The present survey falls within the area covered by planimetric shoreline surveys T-5927 and T-5928 (1941-46). Adequate junctions were effected with these earlier surveys except in lat. 37° 54.5', long. 122° 21.0', where the marsh line on T-5927 falls about 100 meters offshore from the shoreline shown on the present survey. The outer limits of the marsh area were not determined on the present survey.

# 3. Comparison with Prior Surveys

a.	T-399 (	1853) 1:10,000	T-3654	(1917)	1:20,000
		(1881)1:10,000			1:10,000
	T-2245	(1895)1:10,000	T-4438	(1929)	1:10,000
		(1898)1:10,000	T-4672	(1931)	1:10,000
		(1909)1:10,000	<u>T-6301</u>	(1934)	1:10,000
		(1917)1:20,000			

These prior surveys have been previously compared with and superseded by T-5927 and T-5928 (1941-46) and therefore need no further consideration.

# b. T-5927 and T-5928 (1941-46) 1:10,000

These prior surveys cover the area of the present survey.

The most noticeable difference between the present and prior surveys occurs in lat. 37° 54.37', long. 122° 22.17', where the present survey shows an accretion in the shoreline of about 100 meters. Also in this vicinity, two large finger piers have been constructed since the prior surveys. Many other shoreline and waterfront changes of a more minor nature are noted throughout the surveyed area.

The present survey supersedes the prior surveys in shoreline and waterfront detail within the common area.

# 4. Comparison with Chart 5532 (Latest print date 9/26/49)

## a. Topography

The charted shoreline originates with the surveys discussed in par. 3b supplemented by corrections and additions shown on Bp. 40030 (1945) and Chart Letter 486 (1945). The present survey supersedes the charted shoreline.

# b. Aids to Navigation

Aids to navigation located on the present survey are in agreement with the charted positions and adequately serve the purpose intended.

#### c. Magnetic Meridian

The magnetic meridian observation at triangulation station RICHARD in lat. 37° 55.23', long. 122° 22.86', revealed a strong local disturbence in that locality where a reading of 32° 48' E. is 15° 03' greater than the value of 17° 45' E. charted in this general vicinity.

# 5. Condition of Survey

The Descriptive Report and drafting are satisfactory.

# 6. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

# 7. Additional Field Work

The survey serves the purpose intended and no additional field work is required.

Examined and approved:

Chief, Nautical Chart Branch

Chief, Section of Hydrography

Chief, Division of Coastal Surveys