Name Ck'd by	Survey of	F.B. 2244 Pg.
	JN Tape Std °F	
Work	Surveyed by	
	Notes Date	
	Indexed	

Job	Description
	MASTER PLAN-SMALL CRAFT HARBORS-0075.24 CATALINA ISLAND
B.M.	Bench Levels from South Base to Cherry #2 at the Isthmus.
B.M.	Bench Levels from South Base to Triang. Station Harbor.
Loc.	Loc. & Descrip. of triangulation stations on island.
Elev.	Horizontal & vertical angle tie to triangulation control for Emerald Bay & Catalina Harbor study.
Loc.	Vertical angles from Prospect No. 2 to North Base and from North Base to Prospect No. 2.

Microfilmed Nov. '86

NOTES RED. _____ JOB NO 00724 SURVEY OF Small Craft Harbors

DATE _____ SURVEY BY Van Deren

NOTES CHKD. C.J.G. NOTES BY Van DATE 10-3-56

DATE 10-9-56 INDEXED C. Johnson DATE 10-8-56

F.B. 2244 Pg. 5

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
					10-2-56 Van Deren Moody Tuxford	J.N. 00724 Bench Mark Levels on Catalina Island From South Base to Cherry #2 Small Craft Harbors DATUM MEAN LOWER LOW WATER For Approx. Mean Sea Level Subtract 2.70

768420 353 3-51

76S420 353 3-51

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DATUM
MEAN LOWER LOW WATER

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Sta ~~B.M.~~	+ ~~1st RUN~~	HI ~~DIFF.~~	− ~~2nd RUN~~	Elev ~~3rd RUN~~	ADJ. ELEV.	DESCRIPTION
U.S. B.M. #2861	1.585	21.245		19.66		U.S. B.M. 2861 - Catalina Island "South Base" - Fd std USC&GS bronze disk stamped "S. Base 1875" on grassy flat near mouth of largest gulch on SE side Catalina Harbor, in 6"x6" conc post 4" above surface Elev. Above MLLW = 19.66 Per Dept Comm. Bul. T-30-1942
U.S. B.M. #2862			3.598	17.647	N.G. see below	U.S. B.M. #2862 - Catalina Is. B.M. "RM#1 South Base" Fd. Std USC&GS Ref MK disk stamped "No.1 1934" in 10"x10" conc. post 4" high about 138 ft. S'ly from BM "S. Base". Record Elev Above MLLW = 13.84 (See below)
USBM #2861	1.181	20.841		19.66		B.M. #2861 per Above.
R.M. No2	6.823	20.740	6.924	13.917		Fd. Std USC&GS Ref MK disk stamped "No2 1934" in 10"x10" conc. post 4" high about 77± W'ly from "S. Base".
USBM #2861			1.080	19.660		Note:- It is obvious that "R.M. 2" is the B.M. referred to in the description & the description is in error. Although we miss the elev. by 0.077 I accept the data on S. Base as correct

DATUM
MEAN LOWER LOW WATER

NOTES RED. _____ JOB NO. 0075 24 SURVEY OF Small Craft Harbors F.B. 2244 Pg. 7
DATE _____ SURVEY BY Van Derein
NOTES CHKD. C.J.G. NOTES BY Evans DATE 10/2/56
DATE 10-9-56 INDEXED ~~E. C. Johnson~~ DATE

DATUM
M.L.L.W.
for Approx Mean Level Subtract 2.8

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
U.S.B.M. 2861	19.660					U.S. B.M. 2861 Catalina Island South base - Fd Std U.S.C.&G.S. bronze disk. stamped 'S. Base 1875 on grassy flat near mouth of largest gulch on S.E. side of Catalina Harbor, in 6"x6" conc post 4" above surface. Elev above M.L.L.W. = 19.66
250' +	4.099		4.118			
Δ	23.759	4.894	4.896			
250' −	8.993		9.014			
T.P.	14.766				14.765	
250' +	6.728		6.744			
Δ	21.494	0.983	0.985			
250' −	5.745		5.759			
T.P.	15.749				15.749	
250' +	3.138		3.119			
Δ	18.887	4.887	4.886			
250' −	8.025		8.005			
T.P.	10.862				10.862	
250' +	10.892		10.875			
Δ	21.754	9.183	9.182			
250' −	1.709		1.693			
T.P.	20.045				20.045	
200' +	12.139		12.119			
Δ	32.184	11.800	11.797			
200' −	0.339		0.322			
T.P.	31.845				31.844	
200' +	10.971		10.952			
Δ	42.816	9.656	9.654			
200' −	1.315		1.298			
T.P.	41.501				41.499	
100' +	9.382		9.368			
Δ	50.883	8.613	8.616			
100' −	0.769		0.752			
T.P.	50.114				50.113	

DATUM
MEAN LOWER LOW WATER
(For Approx. Mean Sea Level)
Subtract 2.70

NOTES RED. _____ JOB NO. 2273.24 SURVEY OF Small Craft Harbor Catalina Island
DATE _____ SURVEY BY M. A. Van Deren DATE 12-3-56
NOTES CHKD. C.J.G. NOTES BY Van DATE 12-3-56
DATE 12-9-56 INDEXED C. Johnson DATE

F.B. 2344 Pg. 9

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JOB NO. 0075.24 SURVEY OF Small Craft Harbor NOTES RED. DATE
SURVEY BY VanDerey NOTES CHKD. C.J.G.
NOTES BY K.G. DATE 10-3-56 DATE 10-9-56
INDEXED J.C. Johnson DATE

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	50.114				50.113	T.P. per pg 9
50'+	6.203		6.217			
⋀	56.317	3.996	3.993			
50'—	2.207		2.224			
North Base	54.110				54.108	North Base Elev = 54.108 MLLW
50'+	0.346		0.323			Fd a U.S.C. & G.S. brass tablet set
⋀	54.456	11.166	11.169			flush in a 14"x14" Conc pad
50'—	11.512		11.492			Station is on E. side of Catalina,
T.P.	42.944				42.941	isthmus. E. of and across the road
100'+	0.079		0.048	0.054		from the old Government Barracks
⋀	43.023	8.297	8.291	8.298		and about 60' W. of a small house to
100'—	8.376		8.339	8.352		the South of the road leading to
T.P.	34.647				34.644	Banning House (S.F. 1875, R.W.K. 1934)
200'+	5.950		5.935			
⋀	40.597	5.772	5.774			
200'—	0.178		0.161			
T.P.	40.419				40.417	
80'+	11.688		11.697			
⋀	52.107	11.586	11.585			
80'—	0.102		0.112			
T.P.	52.005				52.003	
80'+	11.659		11.649			
⋀	63.664	11.032	11.031			
80'—	0.627		0.618			
T.P.	63.037				63.035	
60'+	11.439		11.417			
⋀	74.476	10.933	10.934			
60'—	0.506		0.483			
T.P.	73.970				73.969	

DATUM
MEAN LOWER LOW WATER
Fr. Approx. M.S.L.
Subtract 2.70

Pg. 10

768420 353 3-51

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NOTES RED. JOB NO. 27524 SURVEY OF Small Craft Harbor
DATE SURVEY BY Van Deren
NOTES CHKD. C.J.J. NOTES BY Van DATE 10-3-56
DATE 10-9-56 INDEXED C. Johnson DATE
F.B. 2214 Pg. 1

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	73.970				73.969	T.P. per pg 4
50' +	10.368		10.352			
Δ	84.338	9.897	9.896			
50' −	0.471		0.456			
T.P.	83.867				83.866	
50' +	10.979		10.957			
Δ	94.846	10.198	10.200			
50' −	0.781		0.757			
T.P.	94.065				94.065	
150' +	11.818		11.833			
Δ	105.883	5.101	5.097			
150' −	6.717		6.736			
T.P.	99.166				99.164	
250 +	4.512		4.528			
Δ	103.678	0.651	0.650			
250 −	5.163		5.178			
T.P.	98.515				98.514	
250' +	6.018		6.052			
Δ	104.533	0.253	0.252			
250' −	5.765		5.800			
T.P.	98.768				98.767	
100' +	4.931		4.972			
Δ	103.699	0.820	0.820			
100' −	4.111		4.152			
T.B.M. #1	99.588				99.587	T.B.M. #1 Elev = 99.587 M.L.L.W.
100' +	4.551		4.529	4.538		Calaling Rd. E. Side at fence line
Δ	104.139	0.696	0.703	0.699		on W. side of bay.
100' −	5.247		5.232	5.237		Set a 60# Spk in W. side of 36" Gum
T.P.	98.892				98.888	at ground level. Spk is bent double
						Gum tree is in small draw

DATUM
MEAN LOWER LOW WATER

769420 353 3-51

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JOB NO. 8075.24 SURVEY OF Small Craft Harbor NOTES RED. DATE
SURVEY BY Van Deren NOTES CHKD. C.L.G.
NOTES BY K.C. Johnson DATE 10-3-56 DATE 10-9-56
INDEXED DATE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	98.892				98.888	T.P. per pg 5
250'+	5.198		5.174	5.202		
℄	104.090	0.607	0.594	0.605		
250'—	5.805		5.768	5.807		
T.P.	98.285				98.283	
150'+	6.279		6.305			
℄	104.564	0.309	0.306			
150'—	6.588		6.611			
T.P.	97.976				97.976	
250'+	4.587		4.543	4.587		
℄	102.563	0.400	0.400	0.400		
250'—	4.187		4.143	4.187		
T.P.	98.376				98.376	
150'+	5.117		5.139			
℄	103.493	0.019	0.021			
150'—	5.098		5.118			
T.P.	98.395				98.396	
175'+	6.030		6.013			
℄	104.425	2.071	2.074			
175'—	3.959		3.939			
T.P.	100.466				100.468	
200'+	6.592		6.534			
℄	107.058	3.276	3.276			
200'—	3.316		3.258			
T.P.	103.742				103.744	
200'+	5.338		5.275			
℄	109.080	1.759	1.757			
200'—	3.579		3.518			
T.P.	105.501				105.502	

DATUM
MEAN LOWER LOW WATER

Pg. 42

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	105.501				105.502	T.P. per pg. 6
100' +	6.227		6.178			
⊼	111.728	2.730	2.727			
100' −	3.497		3.451			
T.P.	108.231				108.230	
100' +	4.775		4.731			
⊼	113.006	1.958	1.960			
100' −	2.817		2.771			
T.P.	110.189				110.189	
200' +	4.490		4.436			
⊼	114.679	1.899	1.903			
200' −	2.591		2.533			
T.P.	112.088				112.090	
250' +	9.697		9.611			
⊼	121.785	7.839	7.838			
250' −	1.858		1.773			
T.P.	119.927				119.929	
250' +	8.427		8.478			
⊼	128.354	7.049	7.047			
250' −	1.378		1.431			
T.P.	126.976				126.977	
250' +	5.930		5.894			
⊼	132.906	4.892	4.889			
250' −	1.038		1.005			
T.P.	131.868				131.867	
100' +	6.674		6.557			
⊼	138.542	4.116	4.117			
100' −	2.558		2.440			
T.P.	135.984				135.984	

DATUM
MEAN LOWER LOW WATER

NOTES RED. _____ JOB NO. 0075.24 SURVEY OF Small Craft Harbor
DATE _____ SURVEY BY Van Deren
NOTES CHKD. C.J.G. NOTES BY Van DATE 10-3-56
DATE 10-9-56 INDEXED C. Johnson DATE

F.B. 2244 PG. 73

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JOB NO. 027-24 SURVEY OF Small Craft Harbor NOTES RED. DATE
SURVEY BY Van Dereu DATE
NOTES BY K.C. Johnson DATE 10-3-56 NOTES CHKD. C.M.G. DATE 10-9-56
INDEXED DATE

F.B. 2244 Pg. 84

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	135.984				135.984	T.P. per pg 1
200' +	6.649		6.592			
Δ	142.633	4.731	4.736			DATUM
200' —	1.918		1.856			MEAN LOWER LOW WATER
T.P.	140.715				140.717	
200' +	6.665		6.578			
Δ	147.380	5.595	5.592			
200' —	1.070		0986			
T.P.	146.310				146.310	
50' +	5574		5.503			
Δ	151.884	0.099	0.100			
50' —	5.673		560 3			
T.P.	146.211				146.211	
200' +	6 292		6.385			
Δ	152.503	2.234	2.233			
200' —	4.058		4.152			
T.P.	148.445				148.445	
250' +	5.831		5.757			
Δ	154.276	2.321	2.319			
250' —	3.510		3.438			
T.P.	150.766				150.765	
250' +	5.018		4.963			
Δ	155.784	0.312	0.310			
250' —	5.330		5273			
T.P.	150.454				150.454	
+	5.383		5.318			
Δ	155.837	0.311	0.311			
—	5.072		5.007			
T.P.	150.765				150.765	

76S420 353 3-51

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	150.765				150.765	T.P. per pg 8.
100' +	4.762		4.718			
⊼	155.527	0.327	0.327			
100' −	4.435		4.391			
T.P.	151.092				151.092	
60' +	4.901		4.847			
⊼	155.993	0.297	0.295			
60' −	5.198		5.142			
T.P.	150.795				150.796	
100' +	5.199		5.138			
⊼	155.994	3.074	3.079			
100' −	2.125		2.059			
T.P.	153.869				153.872	T.P. Spk S. side of road in rock ledge 10-4-56
200' +	1.992		2.033			
⊼	155.861	2.470	2.474			
200' −	4.462		4.507			
T.P.	151.399				151.400	
375' +	4.040		4.170	4.190		
⊼	155.439	0.350	0.350	0.350		
375' −	4.390		4.520	4.540		
T.P.	151.049				151.050	long shot across canyon
200' +	3.918		4.026			
⊼	154.967	1.540	1.536			
200' −	2.378		2.490			
T.P.	152.589				152.588	
150' +	12.218		12.326			
⊼	164.807	1.341	1.340			
150' −	10.877		10.986			
T.P.	153.930				153.929	

DATUM
MEAN LOWER LOW WATER

NOTES RED. _____ JOB NO. 0075.24 SURVEY OF Small Craft Harbor
DATE _____ SURVEY BY Van Dercy
NOTES CHKD. C.J.G. NOTES BY Van DATE 10-4-56
DATE 10-9-56 INDEXED C. Johnson DATE

F.B. 2244 PG. 95

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	153.930				153.929	T.P. per pg 9
200' +	4.218		4.297			
⊼	158.148	6.526	6.528			
200' −	10.744		10.825			
T.P.	147.404				147.402	
200' +	5.281		5.252			
⊼	152.685	6.031	6.025			
200' −	11.312		11.277			
T.P.	141.373				141.373	
150' +	1.018		1.078			
⊼	142.391	11.134	11.134			
150' −	12.152		12.212			
T.P.	130.239				130.239	
50' +	0.150		0.112			
⊼	130.389	11.935	11.940			
50 −	12.085		12.052			
T.P.	118.304				118.302	
40' +	0.010		0.030			
⊼	118.314	12.306	12.304			
40' −	12.316		12.334			
T.P.	105.998				105.997	
40' +	0.238		0.225			
⊼	106.236	11.268	11.266			
40' −	11.506		11.491			
T.P.	94.730				94.730	
40' +	0.842		0.862			
⊼	95.572	10.440	10.440			
40' −	11.282		11.302			
T.P.	84.290				84.290	

DATUM
MEAN LOWER LOW WATER

JOB NO. 0075.24 SURVEY OF Small Craft Harbor NOTES RED. DATE
SURVEY BY Van Deren DATE 10-4-56 NOTES CHKD. C.J.G.
NOTES BY Van C. Johnson DATE 10-9-56
INDEXED DATE

F.B. 2244 PG. 16

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	84.290				84.290	T.P. per pg 10
40' +	0.822		0.749			
⊼	85.112	9.623	9.624			
40' −	10.445		10.373			
T.P.	74.667				74.667	
40' +	0.644		0.698			
⊼	75.311	6.574	6.577			
40' −	7.218		7.275			
T.P.	68.093				68.092	
50' +	4.555		4.616			
⊼	72.648	3.556	3.557			
50' −	0.999		1.059			
T.P.	71.649				71.649	
40' +	7.994		7.927			
⊼	79.643	6.902	6.901			
40' −	1.092		1.026			
Fd Cherry #2	78.551				78.551	Cherry #2 Elev = 78.551 MLLW Fd a bronze tablet set in a 6"x6" Conc post up 6" & stamped U.S.C.&G.S. triangulation station Cherry #2-1933 this station is on a veary conspicuous White bluff point making out from the W. side of the second canyon to the westward from the Isthmus Conc. known as Cherry Valley

DATUM
MEAN LOWER LOW WATER

NOTES RED. _____ JOB NO. 2075.24 SURVEY OF Small Craft Harbor
DATE _____ SURVEY BY Van Deren
NOTES CHKD. C.J.G. NOTES BY Van DATE 10-4-56
DATE 10-9-56 INDEXED C. Johnson DATE

F.B. 2244 PG. 17

NOTES RED. JOB NO. 0075.24 SURVEY OF Small Craft Harbor F. B. 7244 PG. 19
DATE SURVEY BY. M. A. Van Deren
NOTES CHKD. NOTES BY. Van DATE 10-10-56
DATE INDEXED. A. C. Johnson DATE OCT 15 '56

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
				10-10-56 Van Deren Moody Tax Ford		J.N. 0075.24 Bench Mark Levels From South Basc To Triangulation sta Harbor SMALL CRAFT HARBOR AT CATALINA ISLAND DATUM MEAN LOWER LOW WATER Fo. - Approx MSL Subtract 2.70

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

708420 353 3-51

765420 353 3-51

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JOB NO. 6075.24 SURVEY OF Small Craft Harbor NOTES RED. DATE
SURVEY BY M.A. Van Deren NOTES CHKD. DATE
NOTES BY Kay C. Johnson DATE 10-16-56 DATE
INDEXED DATE

F.B. 2244 PG. 20

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
BM 2861	19.660 ✓				19.660 ✓	U.S.C.&G.S. BM. South Base U* 2861
100' +	1.976		1.914			Elev = 19.660 per PB 2244-7
Λ	21.636 ✓	-2.017 ✓	-2.015 ✓	-2.016 ✓		this point is a standard triang
100' —	3.993		3.929			sta disk. stamped 's base 1875"
T.P.	17.643 ✓				17.644 ✓	and is located on a grassy flat
200' +	11.866		11.852			below the mouth of the largest
Λ	29.509 ✓	+11.248 ✓	+11.244 ✓	+11.246 ✓		gulch on the S.E. Side of
200' —	0.618		0.608 ✓			Catalina Harbor. this point
T.P.	28.891 ✓				28.890 ✓	is point is set in a 6"XL" conc
200' +	11.701		11.672			block Elev 19.66 above MLLW
Λ	40.592 ✓	+11.070 ✓	+11.070 ✓	+11.070 ✓		
200' —	0.631		0.602			
T.P.	39.961 ✓				39.960 ✓	
200' +	3.045		3.002			DATUM
Λ	43.006 ✓	-2.772 ✓	-2.770 ✓	-2.771 ✓		MEAN LOWER LOW WATER
200' —	5.817		5.772			For Mean Sea Level (Approx)
T.P.	37.189 ✓				37.189 ✓	Subtract 2.70
200' +	7.823		7.847			
Λ	45.012 ✓	+4.757 ✓	+4.756 ✓	+4.757 ✓		
200' —	3.066		3.091			
T.P.	41.946 ✓				41.946 ✓	
200' +	1.746		1.705			
Λ	43.692 ✓	-3.915 ✓	-3.913 ✓	-3.913 ✓		
200' —	5.661		5.618			
T.P.	38.031 ✓				38.034 ✓	
200' +	8.088	✓	8.153	8.189		
Λ	46.119 ✓	+7.433 ✓	+7.441 ✓	+7.436 ✓		
200' —	0.655		0.712	0.753		
T.P.	45.464 ✓			+7.437	45.470 ✓	

768420 353 3-51

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Do not extend notes this side of this line

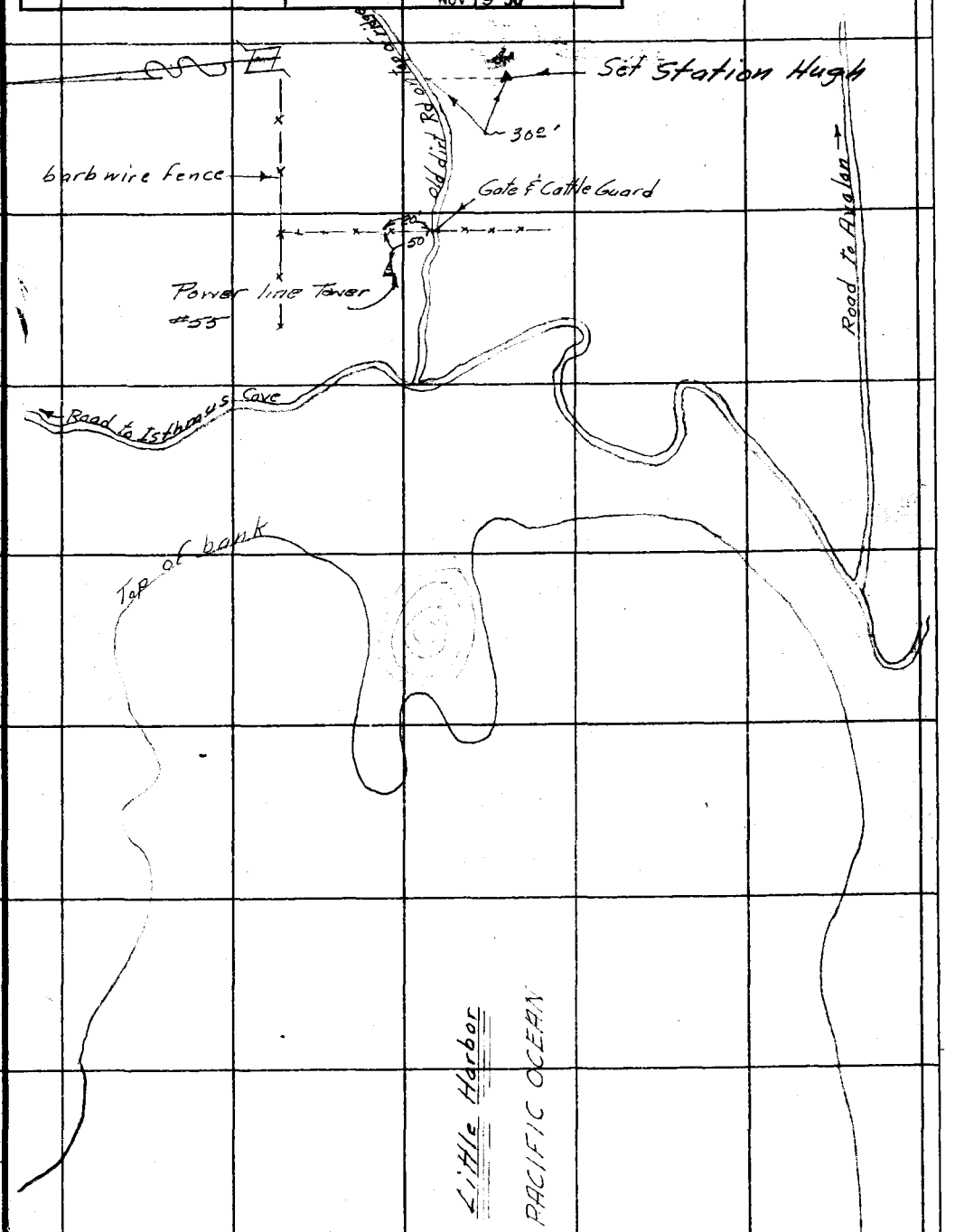
B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	45.464 ✓				45.470 ✓	T. P. per pg
200' +	2.592.		2.618 ✓			
Δ	48.056 ✓	+0.820 ✓	+0.820 ✓	+.820 ✓		
200' —	1.772		1798			
T.P.	46.284 ✓				46.290 ✓	
+	8.297		8.282 ✓			
Δ	54.581 ✓	+3.470 ✓	+3.468 ✓	+3.469 ✓		
—	4.827		4.814			
BM ▽ sta Cat Harbor	49.754 ✓				49.759 ✓	BM ▽ sta Harbor MLLW Fd Std bronze disk set in conc in a depression in a boulder on the low narrow ridge forming the E. point of entrance to Catalina Harbor about 30' above the sea and about 20' below the level of the end of the road, in a boulder projecting to the N. from the ridge line

DATUM
MEAN LOWER LOW WATER

NOTES RED. _____ JOB NO 20735-24 SURVEY OF Small Craft Harbor
DATE _____ SURVEY BY M.G. VanDercy
NOTES CHKD. _____ NOTES BY Kay DATE 10-10-56
DATE _____ INDEXED K. C. Johnson DATE

F.B. 2291 Pg. 21

Notes Ck'd by	Survey of Small Craft Harbor	F. B. 2244 Pg. 23
Map No.	W. O. 0075.24 Tape No. St'd. °F	TRIANGULATION
Office Work	Surveyed by M. A. Van Deren	STA HUGH
Checked	Notes Van Date 10-10-56	
Date	Indexed C. Johnson NOV 19 '56	



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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54

F. B. 2249 Pg. 24

TRIANGULATION STATION HUGH

DESCRIPTIONS

This station is in Los Angeles County and on Catalina Island and in the area of Little Harbor. and is 30° S/y of a dirt road and 0.15 mi E/y of junction of road to Isthmus Cove. dirt road is on top of a long ridge bearing E/y.

STATION MARK: set a 3/4" I.P. with Cap flush

No Reference Marks set

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ENGINEERING BLDG.
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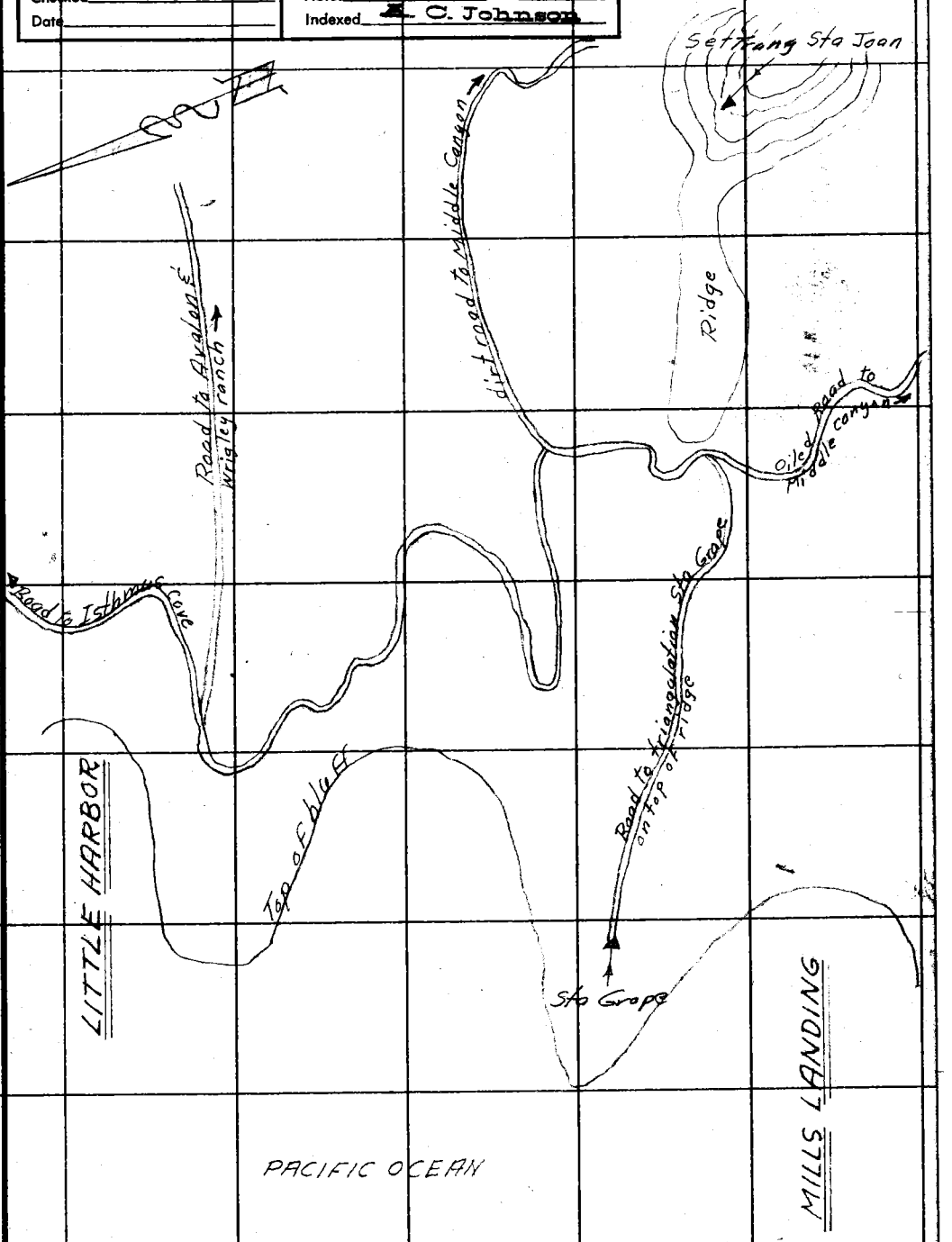
Notes Ck'd by	Survey of Small Craft Harbor
Map No.	W. O. 0075.24 Tape No. St'd. °F
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 10-10-56
Date	Indexed C. Johnson

F.B. 2244 Pg. 25

TRIANGULATION

STA JOAN



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76F309S S&E #247. 8-54

FB 2244 PG 26

TRIANGULATION STATION JOAN

DESCRIPTIONS

this station is in Los Angeles County. and on Catalina Island. and in the area of Little Harbor. and is on top of a ridge bearing Ely. from from the road leading to station Grape. This station is 0.35 mi. E'ly along top of ridge from junction of road to Sta grape and road to Middle Canyon

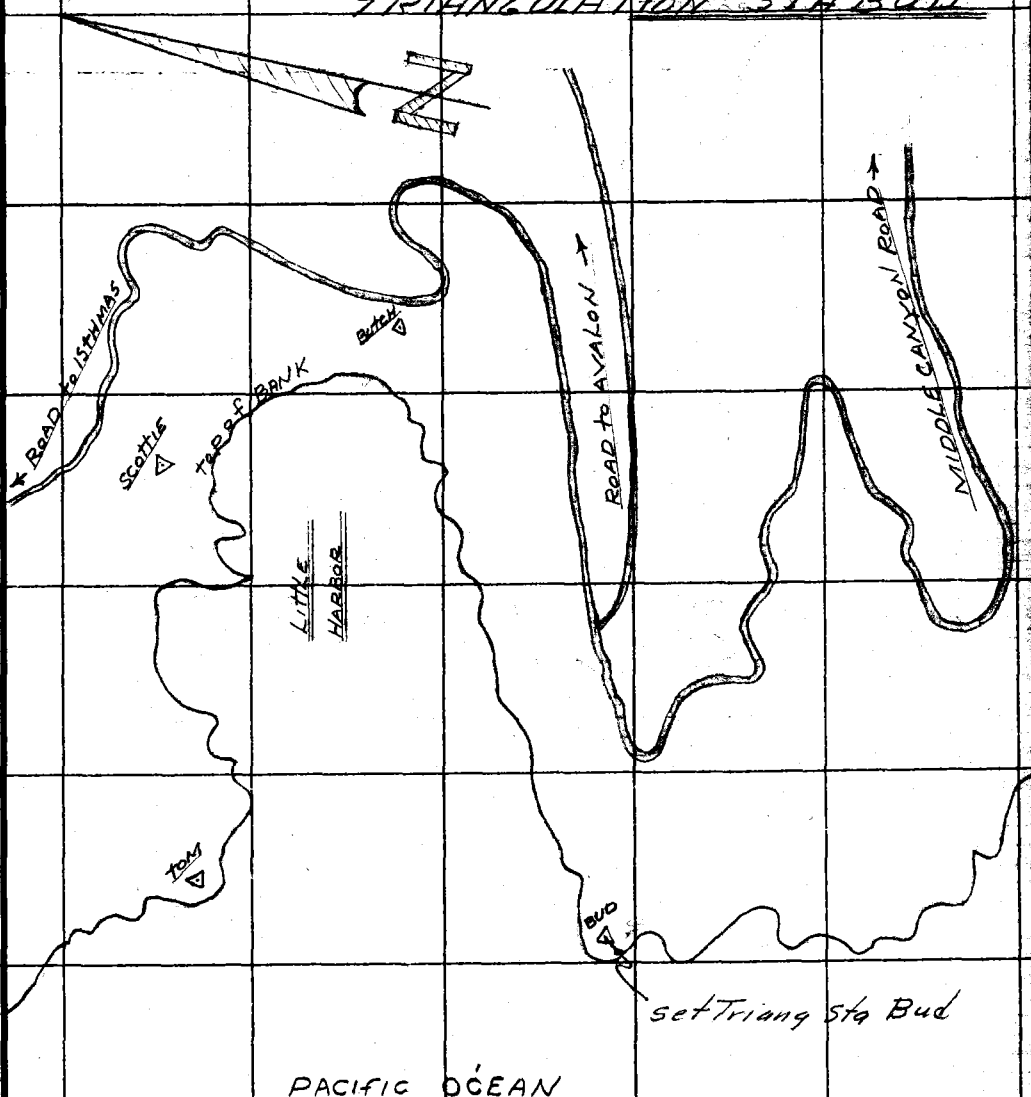
STATION MARK: set a 3/4" I.P. with cap flush

No Refference Marks Set

Notes Ck'd by	Survey of SMALL CRAFT HARBOR
Map No.	W. O. 00752 Tape No. St'd. °F
Office Work	Surveyed by M.A. VAN DEREN
Checked	Notes MOODY Date 10-10-56
Date	Indexed R. C. Johnson

F. B 2244 Pg. 27

TRIANGULATION STA BUD



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76F3098 247 4-53

F. B 2244 Pg 28

TRIANGULATION - STATION BUD

DESCRIPTION

THIS STATION IS IN LOS ANGELES COUNTY, AND ON CATALINA ISLAND, AND IN THE AREA OF LITTLE HARBOR, THIS STATION IS ON A SPUR ON THE SLY SIDE OF LITTLE HARBOR AND ON THE MOST WLY POINT OF SPUR, AND WEST 0.2 OF A MILES FROM JUNCTION ROAD LEADING TO ISTHMAS COVE.

STATION MARK: SET A 3/4" I.P. WITH CAP FLUSH

NO REFFERENCE MARK SET

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Notes Ck'd by	Survey of SMALL CRAFT HARBOR
Map No.	JN 00751 Tape Std °F
Office Work	Surveyed by M.A. VAN DEREN
Checked	Notes MOODY Date 10-10-56
Date	Indexed C. Johnson

F. B 2244 Pg. 29

TRIANGULATION STATION TOM

ROAD TO ISTHMAS COVE

TOP OF BANK

LITTLE HARBOR

Set Triangulation Station TOM

PACIFIC OCEAN

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76F3095 SEE #247 1-56

F. B2214 Pg. 30

TRIANGULATION STATION TOM

DESCRIPTION

THIS STATION IS IN LOS ANGELES COUNTY, AND ON CATALINA ISLAND, AND IN THE AREA OF LITTLE HARBOR, STATION TOM IS SITUATED ON THE S'LY END OF A RIDGE WHICH FORMS THE N'LY SHORE OF LITTLE HARBOR, APPROX. 3,000 FEET W'LY OF THE ROAD FROM ISTHMAS COVE AND 10 ft.± N. OF S'LY END OF SAID RIDGE.

STATION MARK SET A 3/4" I.P. WITH CAP FLUSH

NO REFFERENCE MARK SET

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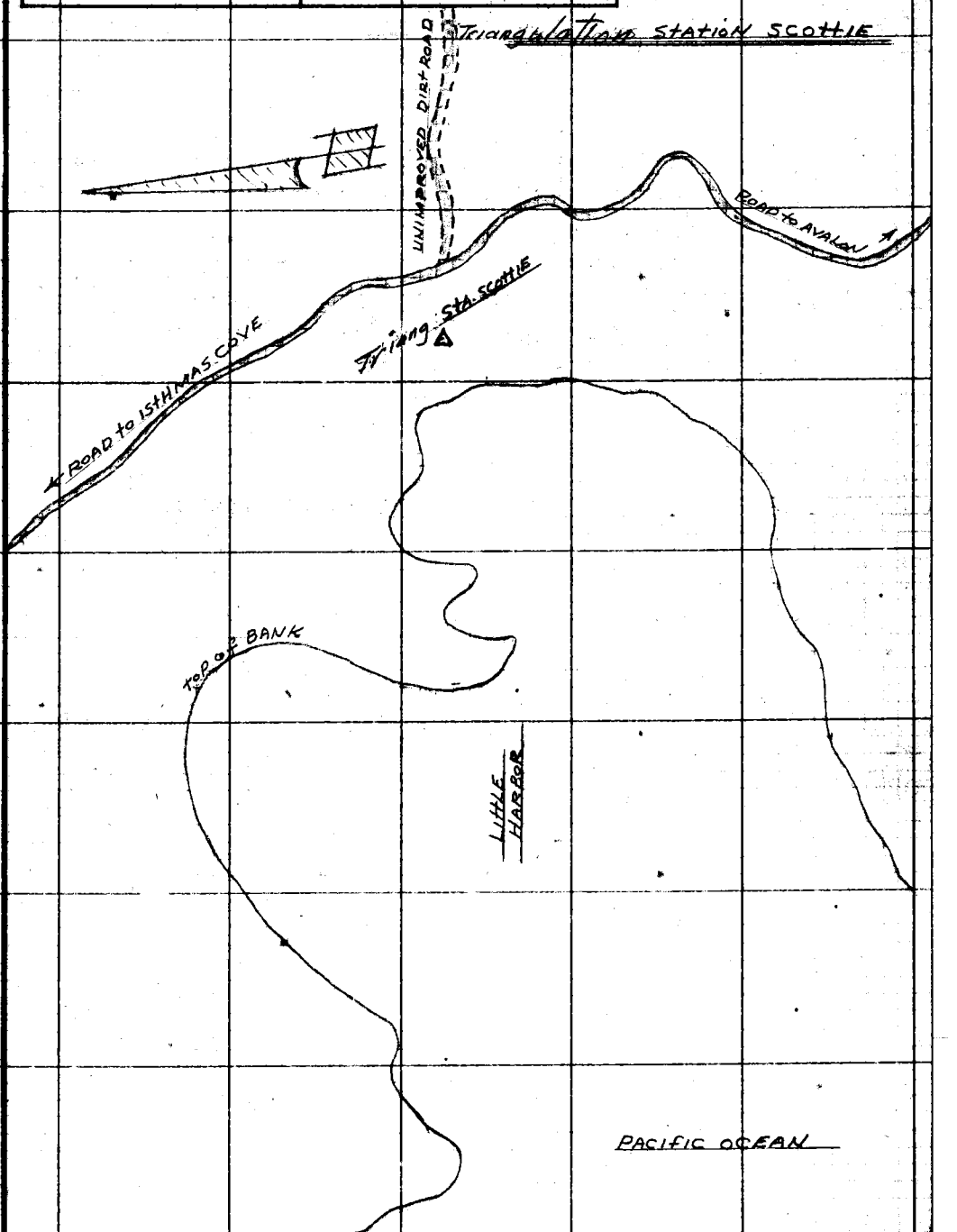
Notes Ck'd by	Survey of SMALL CRAFT HARBOR
Map No.	JN 0075.24 Tape Std °F
Office Work	Surveyed by M A VAN DEREN
Checked	Notes MOODY Date 10-10-58
Date	Indexed K. C. Johnson

F. B. 2244 PG. 31



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76F3088 SBE #247 1-56

F. B. 2244 Pg. 32

TRIANGULATION STATION SCOTTIE

DESCRIPTION

THIS STATION IS IN LOS ANGELES COUNTY, AND ON CATALINA ISLAND, AND IN THE AREA of LITTLE HARBOR, SITUATED ON A RIDGE WHICH RUNS W'LY INTO APPROXMATE CENTER of Litte HARBOR, AND IS LOCATED 5000 ft. ± FROM APPROXMATE prod. of UNIMPROVED DIRT ROAD WHICH RUNS E'LY FROM ISTHMAS - AVALON ROAD.

STATION MARK SET A 3/4" I.P. WITH CAP FLUSH

NO REFFERENCE MARK SET

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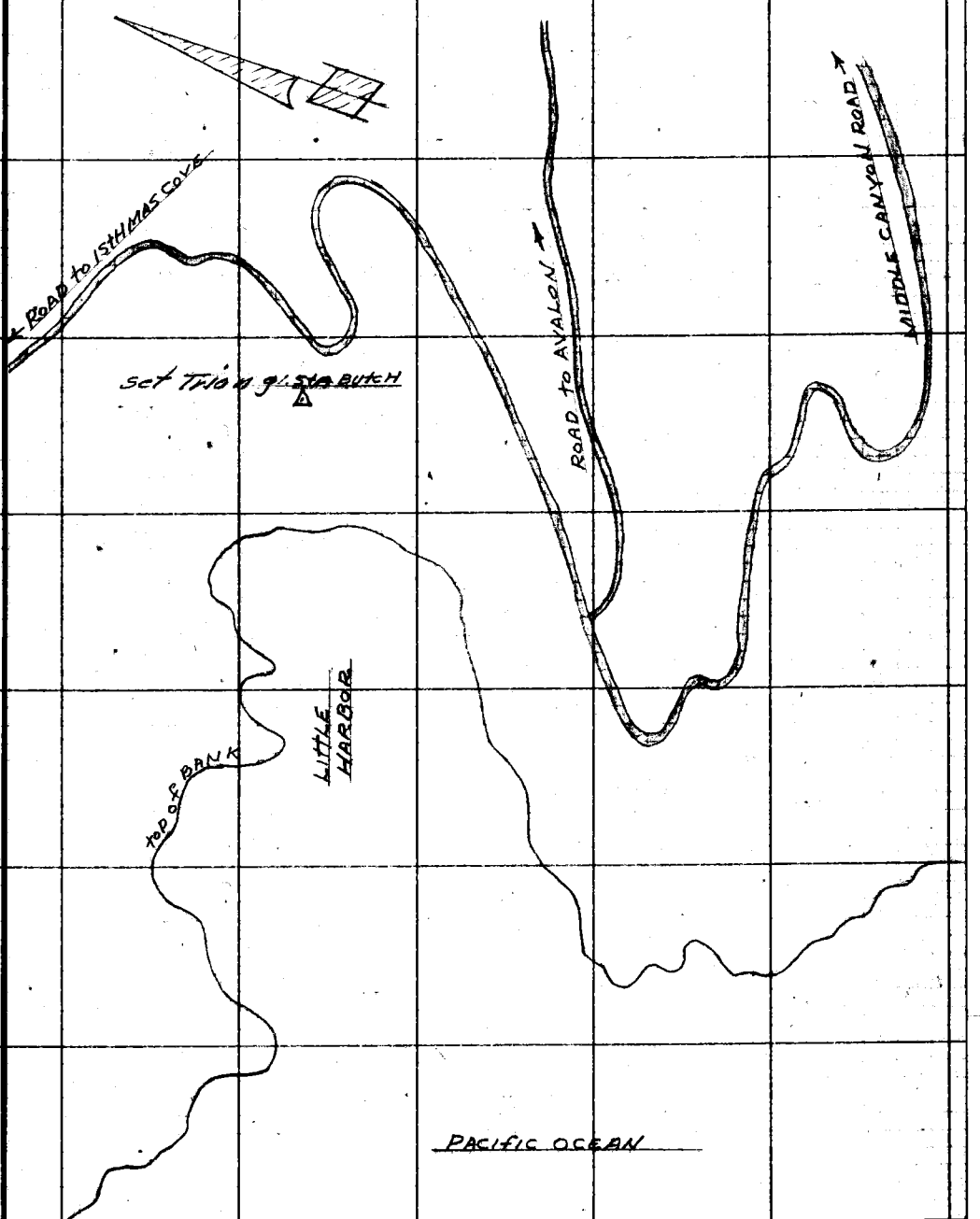
Notes Ck'd by	Survey of SMALLCRAFT HARBOR
Map No.	JN0075.24 Tape Std °F
Office Work	Surveyed by MA VEN DEREN
Checked	Notes Moody Date 10-10-56
Date	Indexed E. C. Johnson

F. B2244 PG. 33

TRIANGULATION STATION BUTCH



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76F309S S&E #247 1-56

F. B2244 Pg. 34

TRIANGULATION STATION BUTCH
DESCRIPTION

THIS STATION IS IN LOS ANGELES COUNTY, AND ON CATALINA ISLAND, AND IN THE AREA OF LITTLE HARBOR, THIS STATION IS ON A SPUR ON THE E'LY SIDE OF LITTLE HARBOR, AND 1 mile ± northerly from junction of road leading to Avalon, & 100 ft ± South-westerly from the Isthmus Cove Rd.

STATION MARK: SET A 3/4" I.P. WITH CAP FLUSH

NO REFFERENCE MARK SET

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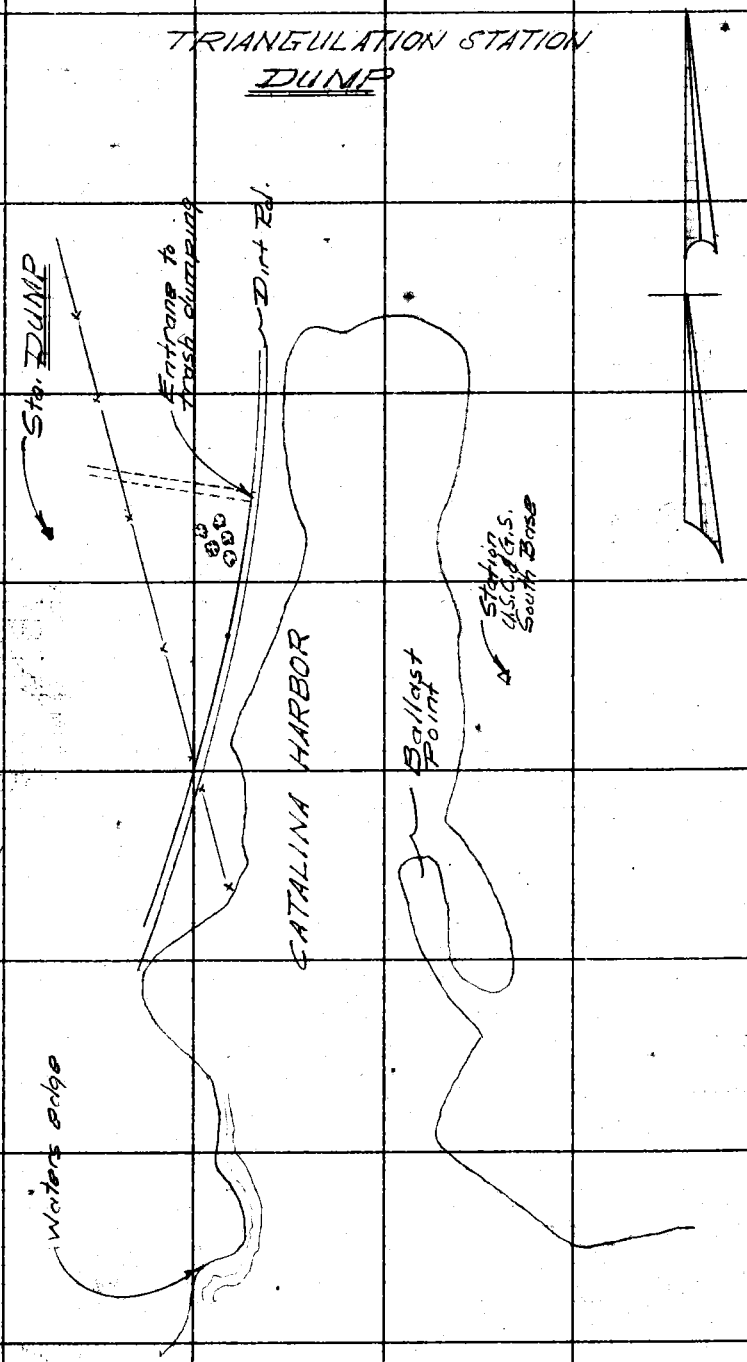
Notes Ck'd by	Survey of Small Craft Harbor
Map No.	JN 0075.24 Tape Std °F
Office Work	Surveyed by Van Deren
Checked	Notes E. Lancle Date Oct. 56
Date	Indexed A. C. Johnson

F. B. 2244 PG. 35

TRIANGULATION STATION
DUMP



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76F309S S&E #247 1-56

F. B. 2211 Pg. 36

Triangulation Station
Dump

~ Descriptions ~

This Station is in Los Angeles County on Catalina Island. It lies in the immediate area of Catalina Harbor @ its most northerly point. Station Dump is approx. 1,440± ft. due N.W. from U.S.C. & G.S. Sta. South Base. Driving to Sta. is possible, as a dirt road leads to an area where Rubbish is disposed of, & in which Sta. was set in a flat clearing of ground.

Station Mark:
Set flush in ground a 3/4 in. I.P. & Cap

Reference Mark:
None

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Map No.	JN 0075.24 Tape Std °F
Office Work	Surveyed by Van Deren
Checked	Notes E. Landa Date Oct 56
Date	Indexed A. C. Johnson

F. B. 2244 PG. 37

TRIANGULATION STATION
BAY

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76F309S S&E #247 4-56

F. B. 2211 PG. 38

Triangulation Station
BAY

~ Descriptions ~

This Station is in Los Angeles County on Catalina Island. Located @ Catalina Harbor Approx. 175± ft above the waters edge on the westerly edge of the entrance to Catalina Harbor. Station Bay lies 1,860 ft.± due N.W. from U.S.C. & G.S. Station Harbor

Station Mark:
Set flush with ground a 3/4" I.P. & Wooden plug.

Reference Mark:
NONE

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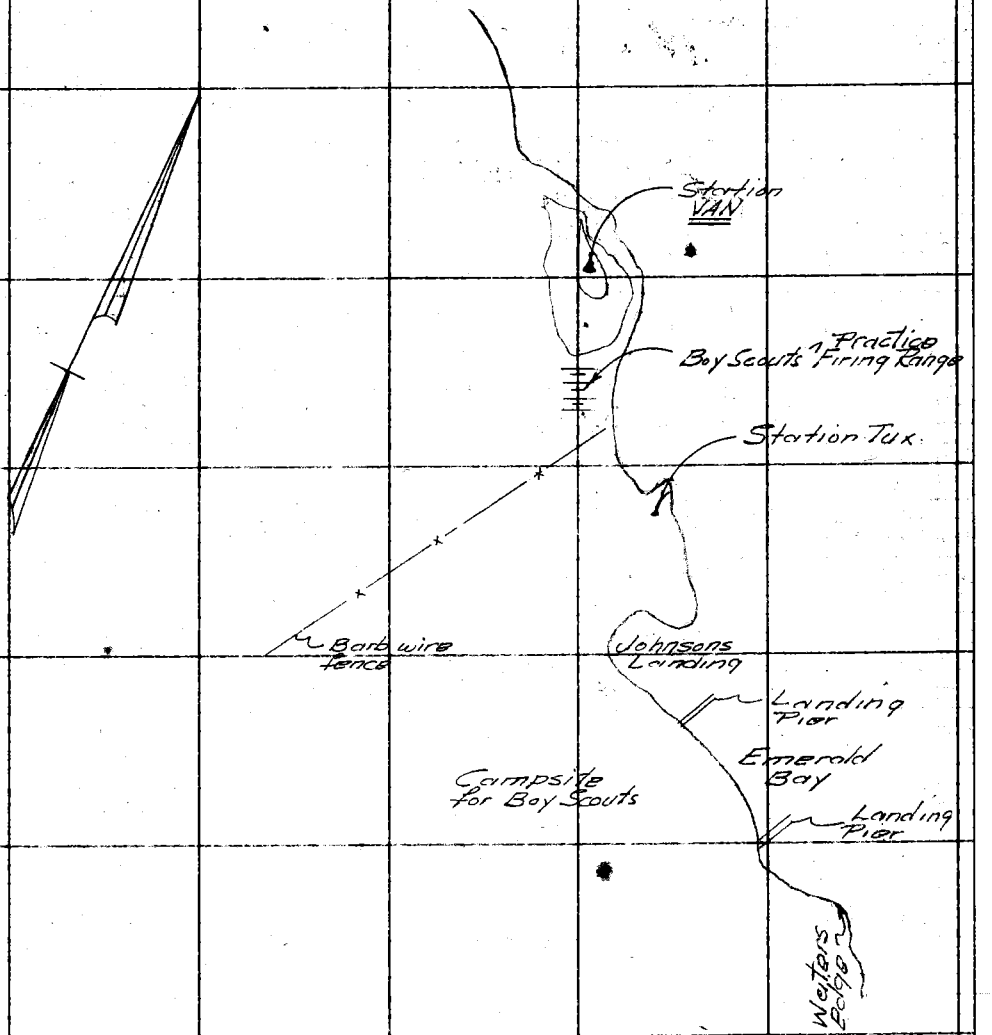
Map No.	JN 0076.24 Tape Std °F
Office Work	Surveyed by Van Deren
Checked	Notes E. Landa Date Oct. 56
Date	Indexed A. C. Johnson

F. B. 2244 PG. 39

TRIANGULATION STATION VAN



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76R309S SAE #247 1-56

F. B. 2211 Pg. 40

TRIANGULATION STATION

VAN

Description:

This Station is in Los Angeles County & on Catalina Island. In the area of Emerald Bay (Johnsons Landing). To locate Station frm. Emerald Bay Hike N.Westly to prominent hill closest to cabin sites. Follow ridge past Fire Practice Range to top of level area overlooking San Pedro Channel, To Station Van

Station Mark:

Set a 3/4 in. I.P. with Cap flush with ground. A 2x2 in. 10 ft barber Pole erected on Station

Reference Mark:

None.

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Map No.	JN 2075.24 Tape Std °F
Office Work	Surveyed by Van Deren
Checked	Notes E. Landa Date Oct 56
Date	Indexed C. Johnson

F. B. 2246 Pg. 41

TRIANGULATION STATION
TUX

Station
TUX

Barb wire
fence

Beach Area

Water's edge
Emergency
Exit

Landing Pier
(Not used)

Landing Pier

Boy Scouts
Camp Site

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78F3098 SAE #247 1-56

F. B. 2244 Pg. 42

TRIANGULATION STATION

TUX

~ Description ~

This Station is in Los Angeles County & on Catalina Island. It is in, & at the area of Emerald Bay (Johnson Landing) To arrive @ Sta. Walk along Bay to the rt. of Boy Scouts site (Northerly), and climb to prominent knoll, approx. 300± frm. landing pier's. It is the most Easterly (North) portion of land @ Emerald Bay

Station Mark:

Set a ¾ in. pipe & cap flush with ground

Reference Marks:

None.

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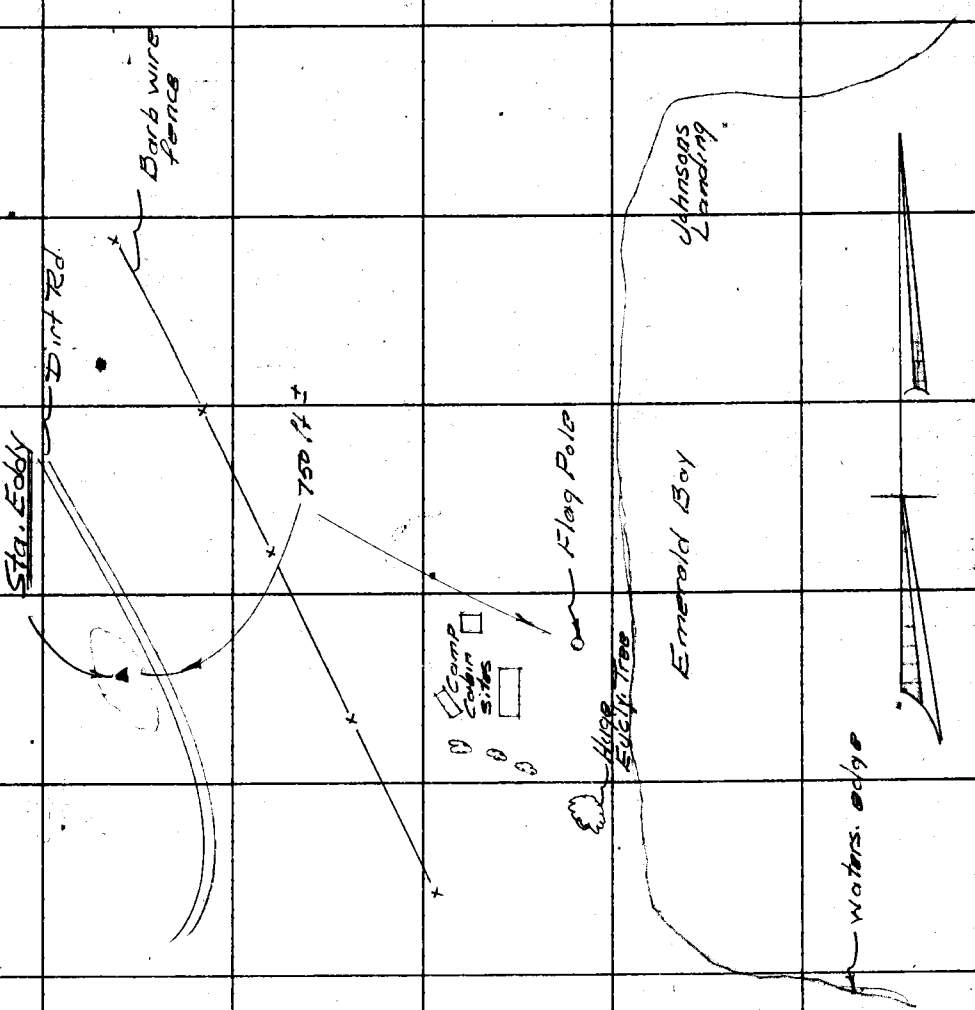
Checked	Notes E. Landa Date Oct 56
Date	Indexed C. Johnson

F. B. 2244 Pg. 43

TRIANGULATION STATION
EDDY



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76F309S S&E #247 1-56

F. B. 2211 Pg. 11

Triangulation Station

EDDY

~ Descriptions ~

This Station is in Los Angeles Co. & on Catalina Island, best approachable frm. Emerald Bay (Johnsons Landing). Sta. lies South Westerly of Boy Scouts Cabin Sites. Hike West'ly approx. 750± ft. to dirt rd. frm. Flag Pole @ Scouts camp, and 12 ft.± in Elev above Rd. to Sta. Eddy.

Station Mark:

Set flush in ground a 3/4 in. Pipe & Cap.

Reference Mark:

NONE.

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76F3098 S&E #247 1-56

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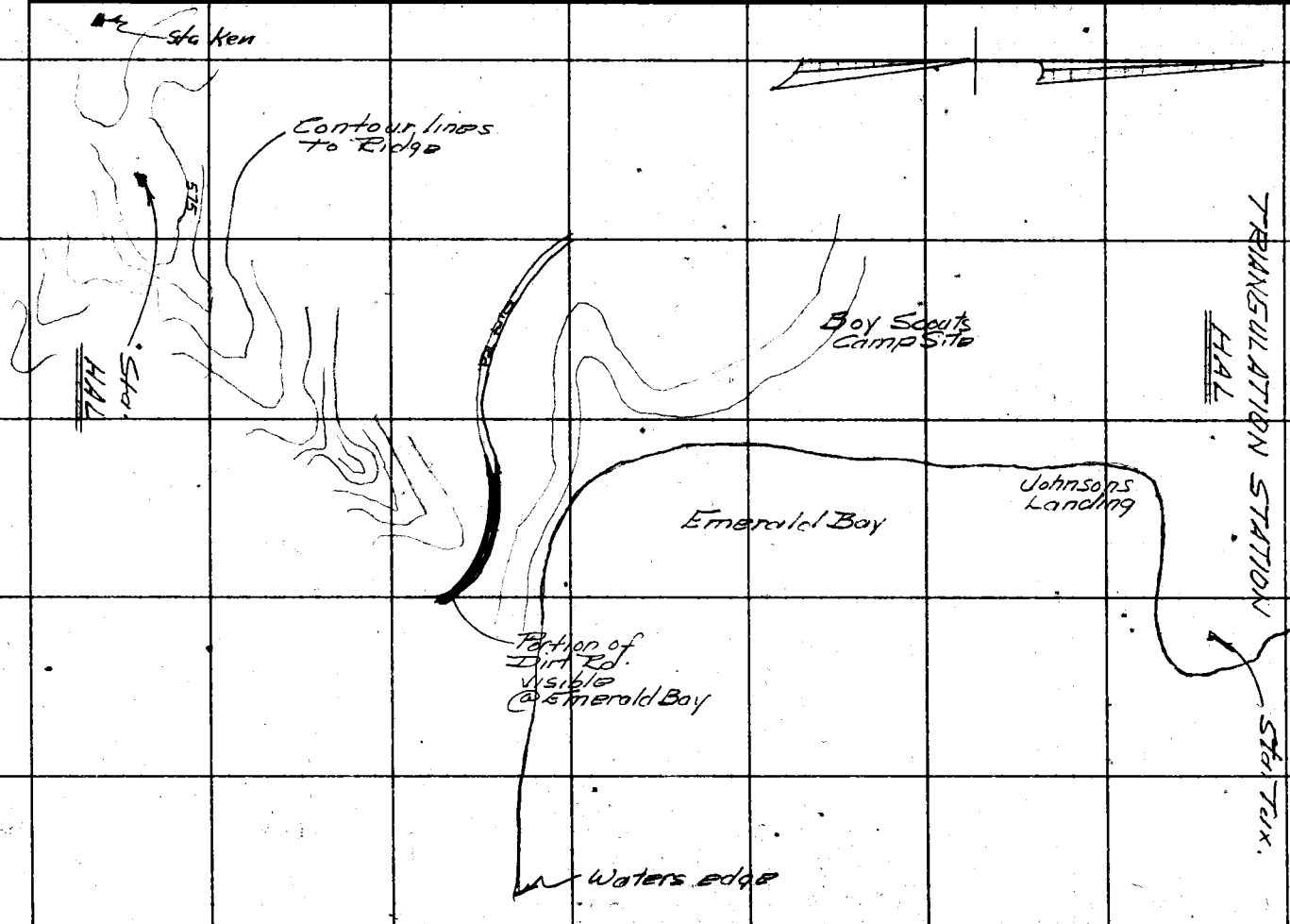

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Small Craft Harbor
JN 007524 Tape Std. °F
Surveyed by Van Doren
Notes E. Lander Date 6-15-56
Indexed C. Johnson

F. B. 2244 PG. 45

F. B. 2244 PG. 44

Triangulation Station
HAL

~ Description ~

This Station is in Los Angeles County & on Catalina Island. Near the Area of Emerald Bay (Johnsons Landing) Hike due South to portion of Road visible from Emerald Bay, then. Climb westl'y on Ridge to highest point of prominent hill still visible frm. Emerald Bay, @ an Elev. of 575 ft.± This Station on same Ridge leading down towards U.S.C. & G.S. Sta. Pablo.

Station Mark:
Set flush, a 3/4" I.P. & Cap

Reference Mark:
None.

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Map No.
Office Work
Checked
Date

Survey of Small Craft Harbor
JN 007524 Tape Std °F
Surveyed by Van Dervn
Notes E. Landa Date Oct 56
Indexed
C. Johnson

F. B. 2244 Pg. 47

TRIANGULATION STATION
KEN

Contour 4075 ft
Sta. Ken

Contour 575ft
Sta. Hal

Boy Scouts Camp
Emeryville Bay
Sta. U.S.C. & G.S. Pablo

Sta. Tax
Waters edge

F. B. 2211 Pg. 48

Triangulation Station

KEN

~ Description ~

This Station is in Los Angeles Co., on Catalina Island. Sta. Ken lies 4,500 ft due West frm. Emerald Bay (Johnsons Landing) On a very Prominent hill @ an Elev. of 1,075 ft. Located on same Ridge of Sta. U.S.C. & G.S. Pablo & Sta. Hal.

Station Mark.

Set flush in ground a 3/4" I. P. & Cap.

Reference Marks:

None

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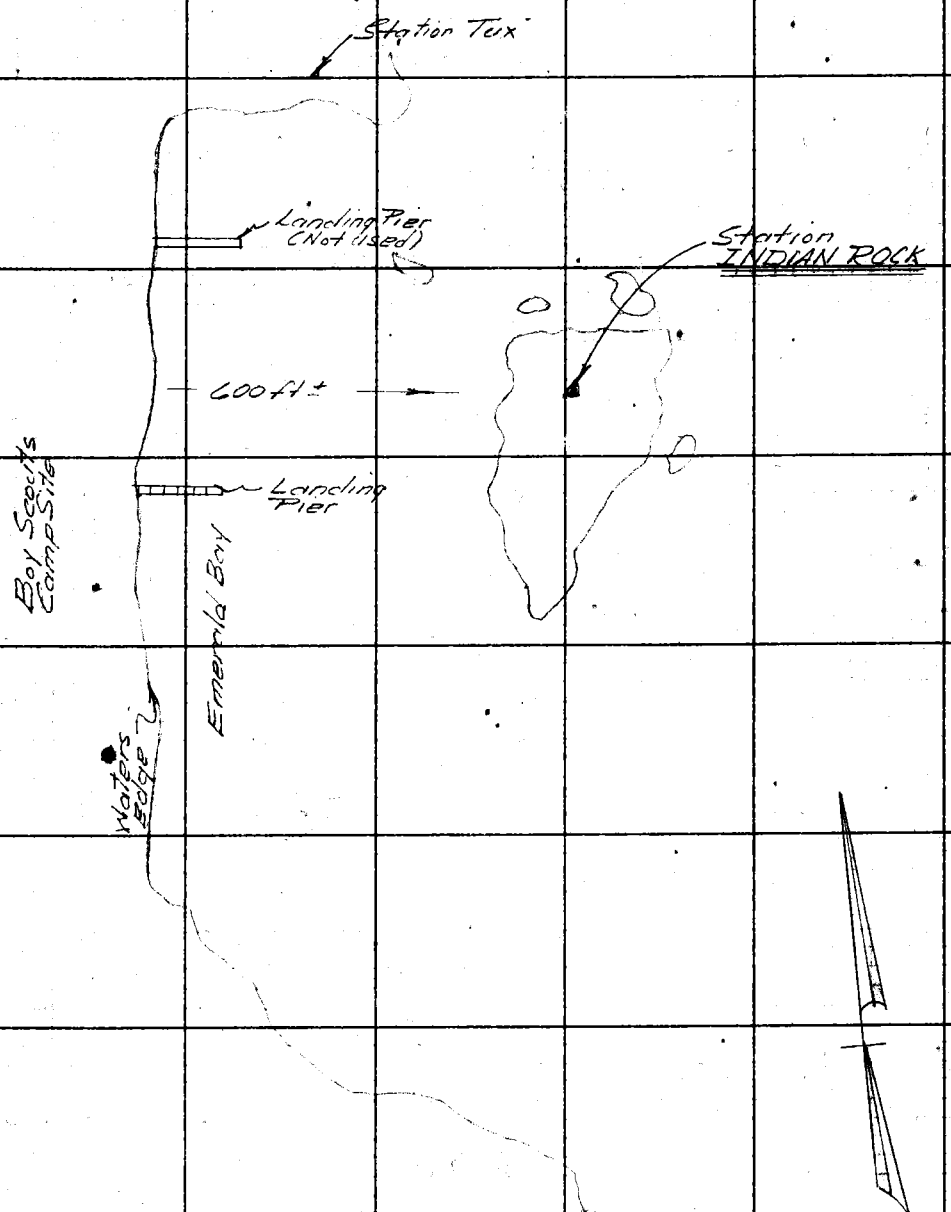
Map No.	JN 007524 Tape Std °F
Office Work	Surveyed by Van Doren
Checked	Notes E. Landa Date Oct 56
Date	Indexed C. Johnson

F. B 2246 PG. 49

TRIANGULATION STATION
INDIAN ROCK



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76F3098 SAE #247 1-56

F. B. 2244 PG. 50

TRIANGULATION STATION
INDIAN ROCK

Description:

This Station is in Los Angeles County ~~&~~ at Catalina Island. This Station is set in a portion of land resembling a huge rock which is surrounded by water which lies in the middle of the entrance to Emerald Bay (Johnsons Landing) And approx. 600± ft from the Beach @ Emerald Bay.

Station Mark:

Set a 3/4 in. Pipe 1 & Cap flush with ground

Reference Mark:

NONE

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Map No.	JN 007624 Tape — Std — °F
Office Work	Surveyed by Van Doren
Checked	Notes E. Landa Date Oct. 56
Date	Indexed K. C. Johnson

F. B. 2244 PG. 51

TRIANGULATION STATION
POP

Isthmus Cove

Banning Home

U.S.C. & G.S.
Isthmus

Station
POP

U.S.C. & G.S.
South Base

Contour
Elev. @ 941 A.

Ballast Point

Catalina Harbor

U.S.C. & G.S.
Harbor

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76F3098 SBE #247 1-56

F. B. 2241 Pg. 52

Triangulation Station
POP

— Description —

This Station is in Los Angeles Co., on Catalina Island. This Station lies SouthEasterly of Isthmus Cove, & due East of Catalina Harbor. It sets on a prominent hill @ an Elev. of approx. 941 ft +. To locate Sta, hike South-Easterly from "Isthmus" to highest point on Same Ridge.

Station Mark:
Set "a" Flush 3/4" I.P. & Cap in ground.

Reference Marks:
NONE.

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Notes Ck'd by	Survey of Small Craft Harbor
Map No.	JN 0075.24 Tape — Std — °F
Office Work	Surveyed by Van Deren
Checked	Notes E. Landa Date Oct 56
Date	Indexed A. C. Johnson 11-9-56

F. 2244 Pg. 53

CATALINA ISLAND

TRIANGULATION

Horizontal Angles from Sta. Pop
U.S.C. & G.S. Sta. South Base
To
U.S.C. & G.S. Sta. North Base

1) 38° - 20' - 00" Verticals: H.I. = 4.76

	South Base	North Base
4) 153 - 19 - 50 =38 - 19 - 57 1/2	Direct = 19 - 26 - 00	= 12 - 47 - 00
6) 229 - 59 - 50 =38 - 19 - 58 1/3	Indirect = 19 - 26 40	= 12 - 46 - 40

Horizontal Angles from U.S.C. & G.S. Sta. South Base
U.S.C. & G.S. Sta. North Base Elev. 19.66
To
Sta. Pop

1) 100° - 37' - 30" Verticals: H.I. = 4.97

	Sta. Pop	Sta. North Base
4) 42 - 30 - 40 = 100 - 37 - 40	Direct = 19 - 27 - 20	= 0° - 48 - 00
6) 243 - 46 - 20 = 100 - 37 - 43 1/3	Indirect = 19 - 26 - 40	= 0° - 48 - 00

Horizontal Angles from U.S.C. & G.S. Sta. North Base
Sta. Pop
To
U.S.C. & G.S. Sta. South Base

1) 41° - 02' - 30" Verticals: H.I. = 4.96

	Sta. Pop	South Base
4) 164 - 09 - 20 = 41 - 02 - 20	Direct = 12 - 47 - 40	0° - 45 - 00
6) 246 - 14 - 00 = 41 02 - 20	Indirect = 12 - 47 - 00	0° - 44 - 20

Note: All Vertical Angles taken @ 5 ft. mark's

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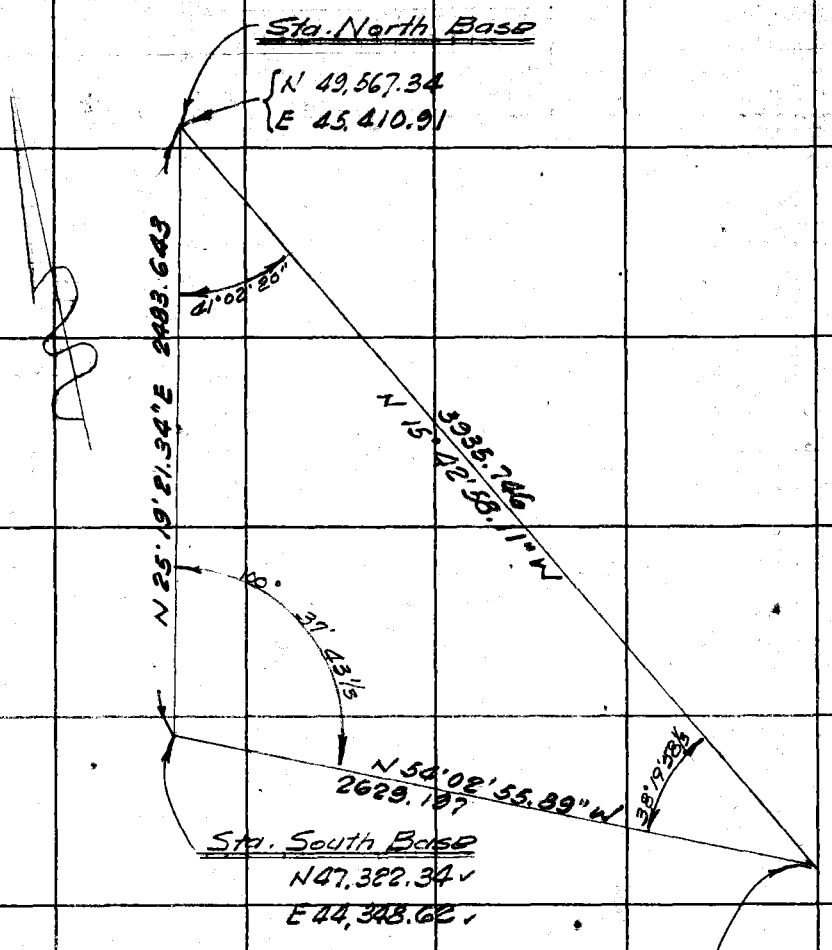
F. B. 2244 Pg. 54



41°	02'	20"
100	37	43 1/3
38	19	58 1/3
179	58	121 2/3

Closure = 180° 00' 01 2/3

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Notes Ck'd by	Survey of Small Craft Harbor
Map No.	JN 0075.24 Tape Std. °F.
Office Work	Surveyed by M.A. Van Deren
Checked	Notes Van Date 11-12-56
Date	Indexed A. C. Johnson

F. B. 2244 PG. 55

NOV 19 '56

VERTICAL ANGLES
FROM
PROSPECT Nº 2 TO NORTH BASE
AND FROM
NORTH BASE TO PROSPECT Nº 2

SMALL CRAFT HARBOR

11-12-56
Van Deren
Moody
Kvammen
Tuxford

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2244 Pg. 56

~~Elevation = 803.32~~ PROSPECT No 2 N 51,028.84

A.A. in Elev. E 42,340.05'

NORTH BASE TO PROSPECT No 2 : N 64°32'56.55" W

3400.906

FROM PROSPECT No 2 TO NORTH

Direct = −13° 17' 30"

Inverted = −13° 17' 20"

Average = −13° 17' 25"

Rod = 5.00

H.I. = 4.86

FROM NORTH BASE TO PROSPECT No 2

Direct = + 13° 17' 00"

Inverted = + 13° 17' 10"

Average = + 13° 17' 05"

Rod = 5.00

H.I. = 5.20