

6007

U. S. COAST & GEODETIC SURVEY  
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: New York

DESCRIPTIVE REPORT

Topographic  
~~Hydrographic~~

Sheet No. E 6007

LOCALITY

Great South Bay

Howell Point to Green Point

1933

CHIEF OF PARTY

Raymond P. Eymann

U. S. GOVERNMENT PRINTING OFFICE: 1921

6007

DESCRIPTIVE REPORT  
to accompany  
Topographic Sheet "E"  
GREAT SOUTH BAY - LONG ISLAND, N. Y.  
RAYMOND P. EYMAN - CHIEF OF PARTY  
Season - 1933

-o-

a. GENERAL DESCRIPTION OF THE COAST:

Starting at a point on the north shore of Great South Bay, opposite the tower at La Salle Military Academy, and about 400 meters therefrom, and progressing eastward along the north shore, the land is low and grassy, with a wooded portion several hundred meters back of the high water line. The La Salle Military Academy Tower and two large tanks are visible from the water at this point. The beach is generally sandy. As triangulation station GREE is approached, the land becomes marshy and some rocky ledges appear on the beach. From a point 400 meters east of GREE to the station FLAGPOLE, BROWN POINT, the shore line is a succession of bulkheads and docks with a few stretches of grassy sandy beach in between. A number of hotels and summer residences are located along this stretch of beach. Running north along the west shore of Brown Creek the shore is composed principally of bulkheads for about  $\frac{1}{2}$  mile, and then is marshy from that point to the highway. Coming south from the highway along the east shore of the creek the land is grassy and marshy. From the triangulation station BLUE POINT, on Blue Point, to the concrete breakwater at the entrance to Patchogue Creek, the land is low and grassy, the beach sandy, and a number of estates and hotels are located along the shore.

Patchogue Creek shore line is a succession of bulkheads, docks, and boathouses. A number of boat yards, gas stations, and summer cottages are located along the water-front. From Patchogue Creek east to Howell Point the land is low and grassy, marshy in spots, with a sandy beach. It is well populated with residences. The most prominent objects from the water are the Patchogue Tank, a large, extremely high, grayish tank, and Hiscox Chimney, a very tall, white chimney, with H-I-S-C-O-X lettered on it. A traverse was run for  $\frac{3}{4}$  of a mile up Swan Creek. The land here is all low and marshy.

Starting at triangulation station FLAT on the south shore of Great South Bay, and progressing westward, the land is marshy, for about  $3\frac{1}{2}$  miles, or to a point about 1 mile east of triangulation station SAD. In most places along this stretch, the high water and low water lines are practically coincident, since there is a vertical bank at the high water line.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET "E"  
GREAT SOUTH BAY, LONG ISLAND, NEW YORK - Continued.

a. GENERAL DESCRIPTION OF THE COAST (Cont'd):

A continuous succession of high sand dunes can be seen along the ocean beach on the south side of the island. A few shacks and deserted buildings are the only structures along this shore, and the only prominent objects are the Coast Guard watch-towers and flag-towers, one at Bellport Coast Guard Station, about 1 mile east of triangulation station FLAT, and one at Blue Point Coast Guard Station, about  $4\frac{1}{2}$  miles west of FLAT.

Progressing westward, from a point 1 mile east of triangulation station SAD, the land becomes grassy for a stretch of  $\frac{1}{2}$  mile, and then a growth of trees starts about  $\frac{1}{4}$  mile east of triangulation station SAD, and from that point to the Lone Hill Coast Guard station, the shore line is wooded, the beach sandy, with stretches of flats and bars located between high and low water.

From Lone Hill to the extremity of the sheet 1 mile west of Lone Hill, the shore is wooded with a sandy beach and with a small stretch of marshy ground.

The ocean beach was traversed from a point opposite FLAT to a point about 1 mile west of Lone Hill. It is composed of a sand beach terminating on the inshore side in a steep bluff which forms the face of a continuous chain of high sand dunes. The country back of the shore is composed of sand dunes for several hundred meters, or about one half the width of the island, which gradually merge into the low, marshy terrain of the bay shore.

b. LANDMARKS:

- ✓ Tower - La Salle Military Academy.
- ✓ Tank - La Salle Academy.
- ✓ Tank - W. Sayville.
- Group of Radio towers - Naval Radio Station, W. Sayville.
- ✓ Cupola - Bayport High School.
- ✓ Tank - Patchogue.
- ✓ Cupola - Patchogue High School.
- ✓ Chimney - Hiscox, tall, white - East Patchogue.
- ✓ Prominent flagpole - Brown Point.
- ✓ Sayers flagstaff - Howell Point.
- ✓ Patchogue flashing light (white, 5 sec. interval).
- ✓ Lone Hill Coast Guard flag-tower.
- ✓ Blue Point Coast Guard flag-tower.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET "E"  
GREAT SOUTH BAY, LONG ISLAND, NEW YORK - Continued.

c. CHARACTER OF CONTROL USED:

The control for this sheet was furnished by first and second order triangulation stations, and intersection stations.

d. CLOSING ERROR OF TRAVERSES RUN AND HOW ADJUSTED:

In running the north and south shores of Great South Bay on this sheet, the control was sufficient so that each set-up position could be checked by resection and three point fixes, so that no large errors in traversing were allowed to accumulate. As a consequence the errors in closing out at triangulation stations were so small as to be negligible, and no adjustment on any of this shore line was necessary. In running Brown Creek and Patchogue Creek on the 10,000 scale, a complete traverse was run, closing on itself, by running north on one bank and south on the other. The closing errors were so small as to necessitate no adjustment. In running Swan Creek a traverse was run to the north to the final set up, and the position there checked by a three point fix. In running the ocean beach, a start was made by setting up on a high sand dune along the beach and opposite station FLAT, and obtaining the position by a three point fix. A 100 meter length of ordinary insulated lap cord was used in traversing from this point to triangulation station FLAGSTAFF, Blue Point Coast Guard Station, with rather unsatisfactory results. The lamp cord was found to have stretched as much as 3.8 meters during one days work. The closing error at the triangulation station was 65 meters, in a 4.5 mile traverse. However, as the shore line along this stretch is practically a straight line, and as the error was all in the direction of progress, it was considered allowable to adjust this shore line proportionately, since the actual change in position of the shore line was not more than 10 meters at any point. From this point to the triangulation station FLAGSTAFF, Lone Hill Coast Guard station, the traverse was run by reading stadia distances. Since no triangulation signals were visible, it was impossible to check the position at any time by resection or three point fixes. This distance of three miles was traversed by orienting on the previous set-ups and reading the stadia distance on the rod. A correction of plus 1.5 meters in 100 was applied to each rod reading, as it was found by checking that that was the error in the rod. The closing error on the Flag tower as Lone Hill Coast Guard station was 5 meters, which was adjusted proportionately through the traverse.

e. The tide gage at Lone Hill was the only off-shore object located on this sheet, and it was located by a direct rod reading.

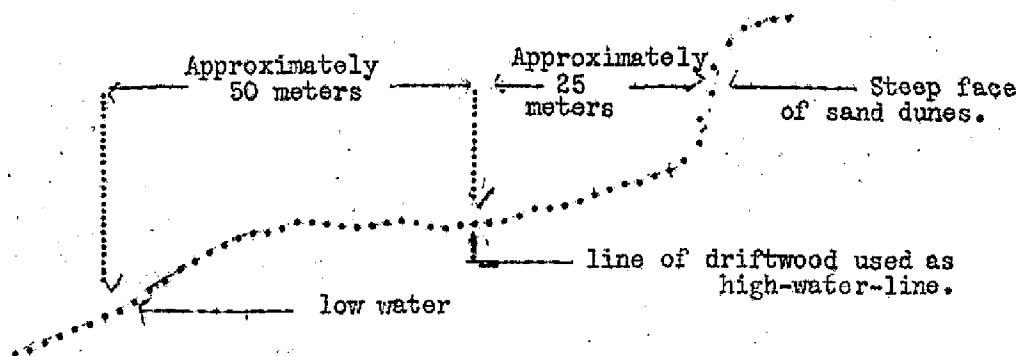
f. No form lines verified.



DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET "E"  
GREAT SOUTH BAY, LONG ISLAND, NEW YORK - Continued.

- g. No changes noted in prominent objects or off-lying features.
- h. A small island lying close to shore just west of FLAT was not located. It was considered that it could be mapped from the photographs of this portion of the shore line.
- i. In locating the ocean beach high-water-line, the line taken as high water is a line indicated by driftwood.

The cross section of the beach is as shown in the following sketch:-



j. In connecting with the adjacent sheet to the westward of Sheet "E", (Sheet "D"), a flagpole (Flagpole, Cherry Grove Hotel), common to both sheets was located. A discrepancy of about 17 meters between the two locations was found. This flagpole was then cut in by triangulation and its position (about a mean between the topographic locations) used to adjust the topography on both sheets. To the eastward the highwater shore line on this sheet was found to differ from Sheet "F" and it was found that two distinctive features were being used and that that on Sheet "F" was of more or less a very temporary condition varying with daily weather conditions; the shore line on Sheet "F" was thus shown too far seaward and was later re-run and found to check on the two sheets.

- k. No new names were assigned to any features on this sheet.
- l. A list of plane table positions accompanies this report.

Respectfully submitted,

Forwarded:

*Raymond P. Eymann*  
Raymond P. Eymann,  
Chief of Party.

A. J. Weber,  
Topographer.

Object and Description	Latitude	Meters D.M.	Longitude	Meters D.P.
WEB White cloth on pole	40° 43'	(1495) 356	73° 05'	(434) 974
NAT Small white banner	40 43	(1299) 552	73 05	(912) 496
TOP Small white banner	40 43	(1316) 535	73 05	(1350) 58
Peak of red-roofed pavilion	40 43	(1250) 601	73 05	(1373) 35
PO Flagpole	40 43	(1312) 539	73 04	(20) 1388
SAY Flagpole	40 43	(1206) 645	73 04	(172) 1236
COR Small white banner	40 43	(1161) 690	73 04	(377) 1031
TID Flagpole	40 43	(1056) 795	73 04	(598) 810
INN Flagpole	40 43	(1057) 794	73 04	(639) 769
YARD Flagpole	40 43	(1057) 794	73 04	(822) 586
AND White cloth on end of Bulkhead.	40 44	(1606) 245	73 02	(1341) 67
BE White shack, red roof.	40 44	(1318) 533	73 02	(1373) 35
HOLD Cupola	40 44	(1141) (1126) 710 725	73 01	(54) 61 1354 1347
CLAM White cloth on Pavilion rf.	40 44	(1239) 612	73 01	(127) 1281
WHAT White Banner	40 44	(938) 913	73 01	(282) 1126
EYE White Banner	40 44	(710) 1141	73 01	(515) 893
CAN White Banner	40 44	(368) 1483	73 01	(673) 735
SEE White Banner	40 44	(141) 1710	73 01	(1014) 394
White Banner	40 44	(94) 1757	73 01	(1213) 195

Object and Description	Latitude	Meters D.M.	Longitude	Meters D.P.
White banner	40° 44'	(96) 1755	73° 00'	(34) 1374
WOE Flag-pole	40 44	(62) 1789	73 00	(139) 1269
WOP Flag-pole	40 44	(83) 1768	73 00	(203) 1205
PIPE Black stack	40 44	(127) 1724	73 00	(436) 972
PER White cloth on pole.	40 44	(377) 1474	73 00	(563) 845
CAT White banner	40 44	(190) 1661	73 00	(818) 590
DOG Flag-pole	40 44	(269) 1582	73 00	(1132) 276
FUN White cloth on gatepost	40 44	(304) 1547	73 00	(1301) 107
AIR Gable of air plane hangar	40 44	(76) 1775	72 59	(377) 1031
GIN Flag-pole	40 44	(154) 1697	72 59	(767) 641
White banner	40 44	(104) 1747	72 58	(287) 1121
LIT White cloth on bulkhead	40 44	(250) 1601	72 58	(433) 975
WIL Flag-pole	40 44	(223) 1628	72 58	(606) 802
NOT White banner	40 44	(384) 1467	72 58	(761) 647
GO White banner	40 44	(553) 1298	72 58	(1108) 300
White banner	40 44	(753) 1098	72 58	(1381) 27
RAG Red banner	40 44	(774) 1077	72 57	(604) 804
DRY Red banner	40 44	(848) 1003	72 57	(882) 526

Object and Description	Latitude	Meters D.M.	Longitude	Meters D.P.
DUB	Red banner 40 44	(1029) 822	72 57	(1182) 226
TOT	Gray windmill 40 44	(840) 1011	72 57	(1287) 121
JOR	Green windmill 40 44	(881) 970	72 56	(49) 1359
	Red cloth on bulkhead 40 44	(967) 884	72 56	(21) 1387
HIS	Red Hiscox Chimney 40 45	(334) 1517	72 58	(337) 1071
TIDE	Tide gage 40 40	(1687) 164	73 04	(1005) 404
SOU	South Range Monument.	(See triangulation station HEIRS)		
BAR	Barrel 40 40	(1112) 739	73 02	(964) 445
SEV	White banner 40 40	(846) 1005	73 01	(170) 1239
POLE	Mast 40 41	(1740) 111	73 00	(845) 634
SHH	White banner 40 41	(1284) 567	72 59	(56) 1358
ZAN	White banner 40 41	(717) 1134	72 59	(668) 741
IN	NW Gable Shack 40 41	(668) 1183	72 59	(1345) 64
Col	White banner 40 42	(1643) 208	72 58	(651) 788
PIP	Stovepipe on shack 40 42	(1558) 293	72 57	(405) 1004
FIRE	White banner 40 42	(1168) 683	72 57	(898) 511
HBL	White banner 40 42	(1066) 785	72 56	(537) 872
DAM	Stake on high dune 40 42	(1269) 582	72 56	(168) 1241



Object and Description		Latitude		Meters D.M.	Longitude		Meters D.P.	
SHAK	Large chimney on house	40	41	(228) 1623	72	58	(1394) 15	✓
DUM	W Gable Shack	40	41	(736) 1115	72	58	(422) 987	✓
HI	Pole on High dune	40	41	(1161) 690	72	59	(971) 438	✓
BOY	Chimney on E end large bldg.	40	40	(985) 866	72	01	(114) 1295	✓
BATH	Gable bathhouse	40	40	(1311) 540	73	02	(798) 611	✓
DUNE	White banner	40	40	(1637) 214	73	03	(1392) 17	✓
Sog	S. Gable Gray shed	40	43	(780) (851) <del>1091</del> 1100	73	04	(1000) 408	✓
Dig	Red flag	40	43	(190) (181) 1661 1670	73	04	(914) 494	✓
Gog	Red brick chimney	40	43	(125) (144) <del>1759</del> 1737	73	04	(1017) <del>453</del> 391	✓
Fli	Red banner	40	43	(95) (83) <del>1759</del> 1768	73	04	(955) 453	✓
DEM	White banner	40	43	(734) 1117	73	07	(947) 461	✓
Reb	Red banner	40	43	(19) (10) <del>1632</del> 1641	73	04	(969) 439	✓
Rot	Red cloth on tree	40	44	(1702) (1773) <del>60</del> 72	73	04	(967) 441	✓
Bat	Red banner	40	44	(1694) (1685) 1654 166	73	04	(933) 475	✓
Wish	White banner sign	40	44	(1610) (1680) 841 250	73	04	(881) 527	✓
Hob	Red banner	40	43	(151) (122) 1720 1729	73	04	(909) 499	✓
Sirn	Red banner	40	43	(160) (151) <del>1691</del> 1700	73	04	(841) 567	✓
Fip	Flag-pole	40	43	(182) (173) <del>1669</del> 1678	73	04	(763) 645	✓



Object and Description		Latitude		Meters D.M.	Longitude	Meters D.P.	
<i>Shin</i>	Chimney on shingle house	40	43	(210)(201) <del>1641</del> 1650	73 04	(723) 685	✓
<i>Stuc</i>	E. Chimney Stucco House	40	43	(365)(356) <del>1486</del> 1485	73 04	(719) 689	✓
<i>Yes</i>	Gable yellow shack	40	43	(392)(383) <del>1459</del> 1466	73 04	(742) 666	✓
<i>Rich</i>	Red chimney on small white shack	40	43	(415)(404) <del>1436</del> 1445	73 04	(819) 589	✓
<i>Pump</i>	Yellow gas pump	40	43	(487)(478) <del>1364</del> 1373	73 04	(912) 496	✓
<i>Chick</i>	Chimney on shack	40	43	(532)(524) <del>1316</del> 1327	73 04	(910) (910) 498	✓
<i>Door</i>	Center of red door	40	43	(594)(585) <del>1257</del> 1266	73 04	(973) 435	✓
<i>Rush</i>	Gable red shed	40	43	(771)(762) <sup>3</sup> <del>1080</del> 1087 <sup>8</sup>	73 04	(952) 456	✓
<i>Gulf</i>	Gulf sign	40	43	(842)(833) <del>1009</del> 1018	73 04	(1006) 402	✓
<i>Clot</i>	Red cloth on shed	40	43	(713)(704) <del>1138</del> 1147	73 04	(958) 450	✓
<i>Gag</i>	Gable garage	40	43	(922)(913) <del>928</del> 938	73 04	(1027) 381	✓
	W. Gable small shack	40	44	(65) 1786	72 59	(214) 1194	✓
	Wind-mill	40	45	(1843) 208	72 59	(319) 1089	✓
	Red banner	40	45	(1680) 171	72 59	(34) 1374	✓
STUMP	Red banner	40	45	(1405) 446	72 59	(102) 1306	✓
	Red banner	40	45	(1330) 521	72 59	(127) 1281	✓
LUM	Bailey sign	40	44	(70) 1781	73 01	(1279) 129	✓
SPEED	White "Speed Limit" sign	40	45	(1835) 16	73 01	(1268) 140	✓



Object and Description	Latitude	Meters D.M.	Longitude	Meters D.P.
Wind- mill	40° 45'	(1821) 30	73° 01'	(700) 798
TRX Red gas tank	40 45	(1592) 259	73 01	(1204) 204
KING Flag- pole	40 45	(1566) 285	73 01	(1143) 265
WEEK Gable Week's boatyard	40 45	(1358) 493	73 01	(1174) 234
BERT Flag- pole	40 45	(1237) 614	73 01	(1171) 237
BISH Gable, green shed	40 45	(1123) 728	73 01	(1199) 208
SHOP Gable, green rf concrete block garage	40 45	(1063) 788	73 01	(1165) 242
RAIL Pole on shed	40 45	(949) 902	73 01	(1099) 308
PERK Gable, red boat house	40 45	(866) 995	73 01	(1094) 313
TOAD Gas Sign	40 45	(716) 1135	73 01	(1119) 288
BAIL Bailey's Chimney	40 45	(745) 731 1106 1112	73 01	(1262) 1240 145 148
SHED Chimney on green shed	40 45	(815) 1036	73 01	(1173) 234
FINE W. Gable, Bailey's Warehouse	40 45	(907) 944	73 01	(1211) 196
GAY Tide gage shack	40 45	(1038) 813	73 01	(1260) 147
GAS Gas sign	40 45	(1071) 780	73 01	(1303) 104
BO Gable, boathouse	40 45	(1528) 323	73 01	(1323) 1323 85
SIGN Docking sign	40 45	(1628) 223	73 01	(1347) 61

(All the above in Patchogue Creek)

Object and Description	Latitude	Meters D.M.	Longitude	Meters D.P.
Lawn Flag pole	40 45	(1701) 160	73 01	(1347) 61
GUE Small no docking sign	40 45	(1791) 60	73 01	(1331) 77
END So. end of concrete jetty	40 44	(380) 1471	72 59	(142) 1266
SHU Red Flag	40 44	(45) 1846	72 59	(175) 1233
JET White Flag	40 44	(299) 1652	73 00	(43) 1365
Red Banner	40 39	(533) 1318	73 05	(1184) 225
So. Chimney Hotel	40 39	(812) 1039	73 05	(832) 577
Yard	40 43	(794) 1057	73 04	(591) 1408
NAP	40 43	(925) 926	73 04	(1307) 101
OY	40 43	1052 (799)	73 04	(1360) 48
MIS	40 43	(595) 1256	73 03	(373) 1038
BAD	40 43	(587) 1264	73 03	(807) 601
SIN	40 43	(620) 1231	73 03	(1074) 334
SUM	40 43	(390) 1461	73 02	(95) 1313
TAN	40 43	(388) 1463	73 02	(873) 535
AND	40 44	(1606) 245	73 02	(1341) 67



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 6007

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. E

REGISTER NO. 6007

State New York

General locality Long Island  
Great South Bay

Locality Howell Point to Green Point

Scale 1:20,000 Date of survey May-June, 1933, ~~1932~~

Vessel Shore Party #2 Project HT-132

Chief of Party Raymond P. Eymen

Surveyed by A. M. Weber

Inked by A. M. Weber

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated Feb. 25, 1933, ~~1932~~

Remarks: For location of hydrographic signals and control  
points for air photos

## REVIEW OF TOPOGRAPHIC SURVEY No. 6007

Title (Par. 56) *Long Island (South Oyster Bay) Howell Point to Green Point, New York*Chief of Party *R. P. Eymann* Surveyed by *A. M. Weber* Inked by *A. M. Weber*Ship *Shore party* Instructions dated *Feb. 25, 1933* Surveyed in *May-June 1933*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.)  
*Sup. 3 of Desc. Rep. sec. 4. relative to adjustment of 65m discrepancy*
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)  
*None*
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *None*
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted.*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~
11. ~~Locations and elevations of summits are given. (Par. 19, 51.)~~
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.



13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control. ✓
15. ~~The~~ <sup>No</sup> descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) *They are listed in the Descriptive Report.*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *A general list for the project area was submitted, and is filed as Letter 707/1933.*
17. The magnetic meridian was shown and declination was checked. ✓ (Par. 17, 52.)
18. The geographic datum of the sheet is *North American 1927* and the reference station is correctly noted. ✓ (Par. 34.)
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.)
22. *In some instances sanding inside the position circle confuses the position pick point.* No additional surveying is recommended. ✓

23. The Chief of Party inspected and approved the sheet and the descriptive report. ~~after review by~~

24. Remarks: *Referring to Report on Air Photo sheet T5085, the position of O Hi should be retained as shown on T6007 as recommended by the office review of T5085. While lamp cord is not a good material for measuring distance, the adjustment to the traverse, which probably was run close to high water line, was such that no error is indicated by the hydrography depending on the signals.*

Reviewed in office by *R. J. Christman, Feb. 24, 1934*

Examined and approved: *A letter was written to the Ch. of Party Mar. 1, 1934 on all sheet of this series.*

*L. O. Colburn*  
Chief, Section of Field Records

*J. S. Borden*  
Chief, Section of Field Work

*W. P. Papenhausen*  
Chief, Division of Charts

*G. H. Rude*  
Chief, Division of Hyd. and Top.

*SEE REVIEW for AIR PHOTO COMPILATION T 5049 and T 5055 attached at back*