DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic  Sheet No. T-5827
Hydrographic

State  Florida

LOCALITY

West Coast
North of St. Petersburg

Pinellas Park and vicinity

Photo dates
Dec. 7, 1939
Dec. 12, 1939

1939

CHIEF OF PARTY

Lieut., Kenneth C. Crosby.
Applied to chart 587 before review October 8, 1942, 8:30 a.m.

"" " " 1257 " " October 13, 1942, 1 p.m.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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.

SHEET NO. T-5827

REGISTER NO.

State ____________________________

General Locality __________________

Locality ____________________________
North of St. Petersburg, Pinellas Park and Vicinity

Scale 1:10,000 Date of survey photos, December 7-12, 1939

Manned Party: Air Photographic Party No. 1

Chief of Party: Lt. Kenneth G. Crosby

Field Inspected by: J. D. McGuire and H. A. Duffy

Surveyed by _______________________

Inked by ____________________________

John E. Doyle, Photogrammetric aid.

Heights in feet above ground to tops of trees

Contour, Approximate contour, Form line interval ______ feet

Instructions dated April 3, 1940

Remarks: ____________________________

Complete survey received: 6 Dec. 1941

Reviewed: 4 Sept. 1943

Redrafted: Oct. 1944

Published: June, 1945

Registered: 21 May, 1948
PHOTOGRAPHS

<table>
<thead>
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<th>Number</th>
<th>Date</th>
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<td>December 12, 1939</td>
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Tides from predicted tables for: None (This sheet is inshore)

Camera: U.S. Coast and Geodetic Survey Nine-Inch (focal length 69 inches)
Negatives on file at Washington Office.

SCALE

Mean scale of photographs: 1:10,000 ± 0.9985
Scale of Survey Sheet: 1:10,000

STATISTICS

Area (Land): 24.95 Square statute miles
Shoreline (more than 200 ft. from opposite shore): None
Shoreline ( creeks): None
Roads, streets, trails, and railroads: 55.14 Statute miles

REFERENCE STATION

Station: PINELLAS PARK, Silver Munic. Latitudes: 27° 50' 21.973(676.44')

Station Tank, 1934
Datum: N.A. 1927

Longitudes: 82° 42' 46.251(1265.64')

Florida System of Plane Coordinates (West Zone)
x-coordinate: 269,623.51 feet
y-coordinate: 1,445,445.94
### SUPPLEMENTARY SURVEY

<table>
<thead>
<tr>
<th>Activity</th>
<th>Name</th>
<th>Date</th>
<th>Hours</th>
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<tr>
<td>Control Surveys</td>
<td>K/S, MJS</td>
<td>May &amp; July</td>
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<tr>
<td>Planetary Surveys</td>
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### FIELD INSPECTION

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<tr>
<td>Preparation of Photographs</td>
<td>K/S</td>
<td>Jan &amp; Feb.</td>
<td>8</td>
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<tr>
<td>Field Work</td>
<td>HAD, JCM</td>
<td>April</td>
<td>30</td>
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<td>Inking Notes</td>
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<td>Coast Pilot Notes</td>
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<tr>
<td>Geographic Nave Report</td>
<td>HAD, LJD, JED</td>
<td>June &amp; July</td>
<td>5 1/4</td>
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<tr>
<td>Landmarks for Charts</td>
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</tr>
<tr>
<td>Description Cards</td>
<td>HAD</td>
<td>April</td>
<td>7</td>
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<tr>
<td>Recovery Notes</td>
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<td><strong>Total</strong></td>
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### MAIN RADIAL PLOT

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<th>Activity</th>
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<tr>
<td>Scale Plot</td>
<td>KGG</td>
<td>June</td>
<td>3</td>
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<tr>
<td>Projection on Base Sheet</td>
<td>KGG, LJD</td>
<td></td>
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<tr>
<td>Projection on Survey Sheet</td>
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<td>Washington Office</td>
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<tr>
<td>Control Plotted</td>
<td>KGG</td>
<td>July</td>
<td>2</td>
</tr>
<tr>
<td>Control Checked</td>
<td>JED</td>
<td>July</td>
<td>3</td>
</tr>
<tr>
<td>Control Trans to Base Sheet</td>
<td>KGG, RHY</td>
<td>July</td>
<td>1 1/4</td>
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<tr>
<td>Transfer Checked</td>
<td>RHY</td>
<td>July</td>
<td>1/2</td>
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<tr>
<td>Control Picked on Photographs</td>
<td>LJD</td>
<td>May</td>
<td>1 1/2</td>
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<tr>
<td>Control Checked on Photographs</td>
<td>K/S</td>
<td>June</td>
<td></td>
</tr>
<tr>
<td>Hydro. &amp; Topo. Stations Picked</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Radial Points Picked</td>
<td>K/S, MJS, LJD</td>
<td>June</td>
<td>16</td>
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<tr>
<td>Adjacent Centers Picked</td>
<td>K/S, JED</td>
<td>Feb. &amp; March</td>
<td>20</td>
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<tr>
<td>Templates</td>
<td>RD, JED</td>
<td>July</td>
<td>12</td>
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<td>Radial Plot</td>
<td>KGG, RD, RHY</td>
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<td>Radial Points Transferred</td>
<td>MJS, JED</td>
<td>July &amp; Aug.</td>
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<tr>
<td>Transfer Checked</td>
<td>PD, JED</td>
<td>July &amp; Aug.</td>
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<td>B &amp; T Stations Sealed &amp; Checked</td>
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<td>Additional Radial Points</td>
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<tr>
<td><strong>Total</strong></td>
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<td>80 3/4</td>
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### DETAILING

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<td>Rough Draft</td>
<td>JED</td>
<td>Sept. &amp; Nov.</td>
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<td>Smooth Draft</td>
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<td><strong>Total</strong></td>
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### COMPILATION

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<th>Name</th>
<th>Date</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Base Overlay</td>
<td>JED</td>
<td>October</td>
<td>4</td>
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<tr>
<td>Descriptive Report</td>
<td>KGG, JED</td>
<td>Oct. &amp; Nov.</td>
<td>7</td>
</tr>
<tr>
<td>Field Review</td>
<td>KGG, JHSB</td>
<td>November</td>
<td>37</td>
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<tr>
<td><strong>Total</strong></td>
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<td>48</td>
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**Total Time Spent on Sheet:** 344 Hours
DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T---5827

GENERAL

This sheet has been compiled in accordance with instructions for
drafting Air Photographic Surveys; Project H.T. 242, dated April 3, 1940.

The general locality of the area covered by this survey sheet is
Florida West Coast, North of the city of St. Petersburg, and Northeast
of Pinellas Park. There is no shoreline on this sheet.

The whole area is broken up with numerous small ponds, the majority
of which are intermittent ponds. Many of the intermittent ponds shown
on this sheet are ponds which have been drained. These ponds are filled
to the berm line during the rainy season and gradually drain off
through the various ditch systems. The grassy ponds have water in them
throughout the year but they too have water level fluctuations with a
readily recoverable shore or berm line surrounding it.

The predominating vegetation is scattered pine, palmetto and grass.

All roads shown by centerline only, should be 0.6 m.m. wide.

CONTROL

There are seven control stations within the tracing limits of this
survey sheet as follows:

<table>
<thead>
<tr>
<th>Name of Station</th>
<th>Year</th>
<th>Established by</th>
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</thead>
<tbody>
<tr>
<td>PINELLAS PARK, SILVER MUNI. 24.T.</td>
<td>1934</td>
<td>G. L. Anderson</td>
</tr>
</tbody>
</table>

No errors were found in the location of the control stations, nor in
the plotting of these stations on photographs.

MAIN RADIAL PLOT.

A continuous radial plot was laid on July 28-30, 1941 for the location
of radial points, hydrographic and topographic stations, bench marks and
azimuth marks on Sheets T-5826 to T-5833, inclusive. It extended south-
ward from a northern limit formed by photographs 3828, 3995, 3916, 3954,
3974, 4185, 4176 and 4200 where it formed a satisfactory junction with
the previous main radial plot. The plot consisted of 63 templates, all of
which were controlled by triangulation or second order traverse. Four
templates had 3 to 5 control stations, eighteen templates had 6 to 10
control stations; thirty three templates had 10 to 20 control stations
and eight templates had 20 to 30 control stations. The latter were
in the vicinity of St. Petersburg. All traverse stations of the "M" series
used for control of the plot were established and located by the Florida
Mapping Project and were considered to be of second order accuracy.

No large or unusual adjustments were necessary in any part of the plot.
Agreement along the flight line was excellent and the intersection of
radial lines to adjacent centers checked the actual center of the template
very closely.

The points located by the main radial plot on this sheet were de-
termined by the common intersection of three or more radial lines. It
was not necessary to place any radial lines on the survey sheet for further
study to obtain a common intersection. In the several locations of points
where there was a triangle of error, the triangle was not larger than
approximately 0.3 m.m. on a side. The actual point picked was the center
of gravity of the triangle. It is believed that the locations as de-
termined by this radial plot are within 0.2 m.m. of their true location.

The templates were made in the usual manner and in accordance with
"Notes on Radial Plotting of Nine-lens Air Photographs", dated April 9,
1940. All hydrographic and topographic stations whether marked or un-
marked were located by the main radial plot. A great number of radial
points were established to alleviate the necessity of the draftsman
establishing additional points.

The usual practice of laying the main plot was followed. This con-
sisted of plotting and checking the control on the survey sheets and then
transferring these points to base grid sheets by matching individual
grid squares. The amount of adjustment in each individual grid square
was negligible but amounted to about .5 m.m. in some cases for the entire
length of the sheet. The grid sheets were securely taped to the plotting
table and allowed to remain for 48 hours before any templates were laid.
Before laying the templates, the base grids were examined for movement
and the necessary adjustments made to reduce or remove the discrepancies along
the matched grid lines. After laying the templates all points were trans-
ferred to the survey sheet by again matching individual grid squares, be-
tween the base grids and the survey sheets.

A further check was made by comparing all photographs for each par-
ticular sheet against the location established by the radial plot. It
has been found that much time can be saved by making this additional check
at the time of completing the transfer rather than waiting until the sheet
is ready for detailing. This eliminates a particular fruitful source of
discrepancy, namely the picking of a wrong intersection when there is a
multiplicity of "cuts", not all of which meet at a common intersection.

Various colored inks were used on the mounted office prints and on the
survey sheets to designate triangulation, traverse and topographic stations,
etc. The following key is furnished for this information:
Photographs (Office Prints)

Triangulation & Traverse Stations.....2.5 mm blue circle
Marked Hydro. & Topo. signals........2.5 mm green circle
Radial Points (Main Plot).............2.5 mm red circle
Radial Points (Additional)..........3.5 mm red circle
Photograph Centers..................Double Circle

Survey Sheet

Triangulation Stations.............3.5 mm high black triangle
Hydro. & Topo. Stations.............2.5 mm black circle
Radial Points (Main Plot)..........2.5 mm blue circle on back of sheet
Radial Points (Additional).........3.5 mm blue circle on back of sheet
Radial Points (Questionable).....3.5 mm green circle on back of sheet.

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and accurate interpretation was obtained with no unusual conditions being found except in the case of the numerous grassy and intermittent ponds. This is discussed in the paragraph entitled "Detailing".

FIELD INSPECTION

Field inspection was made by J. D. McGuire, and H. A. Duffy, Photogrammetric Aids, during the months of April and May, 1941. Notes were sufficient for accurate interpretation of vegetation.

DETAILING

This sheet was detailed in accordance with the current instructions of the project.

Photographs 3971, 3972, 3973, were in good scale and 2/3 of the sheet was detailed from these. Photographs 4186, and 4187 were not in good scale but were used for checking. Photographs 4174, 4175 and 4176 fell outside of the tracing limits of the sheet but were used for detailing; the scale was fair.

Before detailing, the surface of this sheet was rubbed down with magnesium carbonate and then washed off. No re-inking was required.

The stereoscope has been used freely for pinking the corners of buildings, interpretation of detail and determining the limits of vegetation.

Throughout the area covered by this sheet there are numerous ponds. They are interconnected in many cases by drainage ditches and are consequently transformed into "intermittent ponds", being filled with water during the rainy season and gradually drain off during the dry season. Many of the ponds are shown as "grassy ponds", since these have water in them throughout the year and although fairly stable there is some fluctuation in the water level. When detailing these features some difficulty was experienced in properly identifying the intermittent ponds from the more stable grassy ponds. These features have been carefully verified and
it is believed that a correct interpretation has been made.

The legend used by the field inspection party and by the draftsman is made a part of this report.

JUNCTIONS

This sheet joins T-5829 and T-5830 on the south; T-5825 on the north; T-5824 and T-5826 on the west and T-5828 on the east. The junctions are in agreement.

COMPARISONS WITH OTHER SURVEYS

Reference is made to a letter from the Washington Office dated May 10, 1941 (28-FPA-1990), advising that this paragraph may be dispensed with for this area. Surveys of other agencies and the charts of this area are of such scales that accurate comparisons could not be made.

LANDMARKS

There are no landmarks recommended for charting in this area.

GEOGRAPHIC NAMES

The investigation of geographic names on this sheet is the subject of a special report entitled "Investigation of Geographic Names, Anclote Keys to Tampa Bay", submitted to the Washington Office by Lieut. (j.g.) James D. Thurmond.

Respectfully submitted,

John E. Doyle

Photogrammetric Aid.

Forwarded,

Lieut. Kenneth G. Crosby
Chief of Party.
REVIEW REPORT
Planimetric Map Manuscript T-5827

RADIAL PLOT:
The radial plot could not be checked by use of the office photographs because they had already been destroyed.

DETAIL:
Aside from the need to add a few ditches and second class roads, which were plainly discernible on the photographs, the delineation of the planimetric detail on this map manuscript was well done.

COMPARISON WITH PREVIOUS SURVEYS:
(no contents)

Only T-1409 1/10000 1875 falls within the area of T-5827, and it is superseded by the present survey.

COMPARISON WITH PRESENT QUADRANGLES:
T-8380 Safety Harbor, USE 1943 (War Mapping)
T-8387 St. Petersburg " " "

These quadrangles were compiled on bases prepared from T-5827, T-5828, T-5829, T-5830. Roads on this planimetric map were re-classified in accordance with war mapping specifications.

COMPARISON WITH NAUTICAL CHARTS: 1257 1/80000, 1941
T-5827 is an inland map, whose area is not included in the chart.

Reviewed by

Under the direction of

D. Benson

M. V. Parker 4 Sept. 1943.

APPROVED BY:

Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Div. of Photogrammetry

Chief, Nautical Charts Branch Division of Charts

Chief, Div. of Coastal Surveys

This review report is compiled from notes made by the reviewer upon a check list. (LTS, May, 1948)
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<th>F</th>
<th>G</th>
<th>H</th>
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<td>SYMBOLS</td>
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<tr>
<td>.1 - Pine</td>
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<tr>
<td>Cy - Cypress</td>
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<tr>
<td>Palo - Palmetto</td>
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<td>P - Pond</td>
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<tr>
<td>Cy P - Cypress Pond</td>
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<tr>
<td>I P - Intermittent Pond</td>
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</table>

**CONSTRUCTION**

- D - Declined tree (broad leaf)
- Cit - Citrus (orchard)
- Mix - Pine, cypress & Dec. trees (Density)
- Sc - Scattered
- T.W - Thilly wooded
- H.W - Heavily wooded
- S - Scrub trees, brush

**VEGETATION**

- G - Cultivation
- Gr - Grass
- Tree - Tall Tropical Grass
- M - Marsh (dashed blue line on inshore limits)
- F - Marsh grass in water (dashed blue line on offshore limits)
- Sw - Swamp
- Mg - Mangrove
- Hg - Hedge

**STS:CA.**

- Ca - Canal (width)
- Cr - Creek
- D - Ditch (width)
- I - Intermittent Stream
- PDU - Probable drainage unsurveyed
- Br - Bridge or symbol
- Cv - Culvert
- Lev - Levee

**NOAH & RAILROADS**

- Rd 1 - 1st class road (paved)
- Rd 2 - 2nd class road
- R R - Rail Road
- U P - UP (state the kind)
- O P - O.P. (state the kind)
- X - Abandoned trail, road, etc.
- M.T. - R.R. abandoned (made only)

**SOILS**

- H.S.L. - High water line (solid red line)
- L.S.L. - Low water line (dashed red line)
- LILL - Light line (solid line for mean high water line on marsh)
- DK - Dock
- Pr - Pier
- Se W - Seawall
- Bld - Building
- G - Concrete
- Wa - Ward
- Jet - Jetty
- Do - Do
- Pile - Pile (give type)
- S - Sand
- Bnd - Bank
- R - Rock or rocky
- St - Story
- W - Water
- Blf - Bluff (height)

**MILITARY**

- N - Names, born or building
- Ch - Church (give name)
- Ct R - Court House (give name)
- Do H - Post Office (give name)
- R.R. Sta - Railroad station (give name)
- Hos - Hospital (give name)
- Sch - School (give name)

**LEGEND**

- F - Fence
- BR - Fire Break (maintained)
- BRX - Fire Break (abandoned)
- Cem - Cemetery
- Park - Park (give name)
- F.T. - Fire Tower
- T.I. - Transmission tower (tall steel)
- P.L. - Power Line
- Shoal - Approx. 11 ft by 1000 ft
- L.L. - Limit of habitable land
- R.R. - River
- Topo. - Topographic
REVIEW OF AIR PHOTO COMPILATION NO. T- 5827

Chief of Party: Kenneth G. Crosby Compiled by: John E. Doyle

Project: H.W. = 242 Instructions dated: April 3, 1940

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, c, d, e, f, g and i; 26; and 54)

   Yes.

2. Change in position, or non-existence of wharves, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 56 g, h)

   This is an inshore sheet.

3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot wherever necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 56; and 66 d, e)

   None Used.

4. Blue prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)

   None transmitted.

5. Difference between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.

   Yes.

6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 65 c, h, i)

   Yes.

7. High water line or marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 63, and 44)

   No shoreline on this sheet.
8. The representation of low water lines, reefs, coral reef, and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

No shoreline on this sheet.

9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)

Yes.

10. A list of landmarks was furnished on Form 557 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

No landmarks.

11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)

No bridges of navigational importance.

12. Geographic names are shown on the overlay tracing. The accepted local usage on new names has been determined and they are listed in the report, together with a general statement as to the source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U.S. G. & C.S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

No overlay — See paragraph "Geographic Names".

13. The geographic datum of the compilation is N. A. 1927 and the reference station is correctly noted.

Yes.

14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

Yes.

15. The drafting is satisfactory and particular attention has been given the following:

1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report. Yes, legend also used.

2. The degrees and minutes of latitude and longitude are correctly marked. Yes.
3. All station points are exactly marked by fine black dots. Yes.

4. Closely spaced lines are drawn sharp and clear for printing. Yes.

5. Topographic symbols for similar features are of uniform weight. Yes.

6. All drawing has been retouched where partially rubbed off. Yes.

7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground. Yes.

(Patr. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

No additional Topographic Survey required.

17. Remarks:

18. Examinmed and approved:

[Signature]

Kenneth G. Crosby
Chief of Works

19. Remarks after review in office:

Reviewed in office by:

Examinmed and approved:

[Signature]

Chief of Section of Field Records

[Signature]

Chief, Section of Field Work

[Signature]

Chief, Division of Charts

[Signature]

Chief, Division of Hydrography
### NAUTICAL CHARTS BRANCH

**SURVEY NO. T-5827**

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/7/46</td>
<td>587</td>
<td>B.H. Bennett</td>
<td>Before After Verification and Review, Fully applied</td>
</tr>
</tbody>
</table>

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

Before After Verification and Review

Before After Verification and Review

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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.