

# 8841

Diag'd. on Diag. Ch. No. 1246 & 1247

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-9(46) Office No. T-8841

#### LOCALITY

State Florida

General locality East Coast - Indian River County

Locality "Vero Beach"

194 6-'49

CHIEF OF PARTY

R.A. Gilmore

LIBRARY & ARCHIVES

DATE January 5, 1950

B-1270-1 (1)

# 8841

## DATA RECORD

T- 8841

Quadrangle (II): Vero Beach

Project No. (II): Ph-9(46)

Field Office: Vero Beach, Fla.

Chief of Party: Ross A. Gilmore

Compilation Office: Tampa, Fla.

Chief of Party: Ross A. Gilmore

Instructions dated (II III): 28 May 1947

Copy filed in *Project Report*  
*Office Files Div. of Photo-*  
*Descriptive geometry*  
Report No. T- (VI)

Completed survey received in office: 13 Sept 1948

Reported to Nautical Chart Section: 17 Sept 1948

Reviewed: 21 Sept 49

Applied to chart No.

Date:

Redrafting Completed:

Registered: 24 Oct 49

Published:

Compilation Scale: 1:20,000

Published Scale: 1:24,000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): NARROWS, 1881, 1906

Lat.: 27° 41' 42.49" (1308.2m) Long.: 80° 23' 40.436 (1107.9m)

Adjusted  
~~Unadjusted~~

State Plane Coordinates (VI): Florida East Zone

X = 695,920.44 Ft

Y = 1,222,300.69 Ft

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
16369	27 Apr. 1946	1106	1:20,000	0.1 ft. above MLLW
16371	"	1116	1:20,000	0.1 ft. " "
16384	"	1139	"	0.1 ft. " "
16385	"	1140	"	0.1 ft. " "
16387	"	1147	"	0.0 ft. " "
16388	"	1148	"	0.0 ft. " "
16389	"	1149	"	0.0 ft. " "

Tide from (III): Fort Pierce (City Dock) Ref. Sta.: Mayport

Mean Range: 0.7 ft. (Indian R.) Spring Range: 0.8 ft.  
2.6 ft Fort Pierce Inlet (Atlantic Ocean) 3.0 ft

Camera: (Kind or source) U.S. C. & G.S. Survey 9-lens, 8.24" focal length

Field Inspection by: James E. Hundley

date: January-March, 1948

Field Edit by: J.E. Hundley

date: Feb. 49

Date of Mean High-Water Line Location (III): 1 to 22 March 1948

Projection and Grids ruled by (III) T.L.J. (W.O.)

date: 16 Oct. 1947

" " " checked by: T.L.J. (W.O.)  
R. Dossett, R.R. Wagner &

date: 16 Oct. 1947

Control plotted by: W.H. Shearouse

date: Nov. 1947, Mar. 1948  
May 1948

Control checked by: I.I. Saperstein, E.C. Andrews &  
W.W. Dawsey

date: Nov. 1947, Mar. 1948,  
May 1948

Radial Plot by: M.M. Slavney

date: 24 Mar. 1948

Detailed by: W.H. Shearouse

date: Apr.-Aug. 1948

Reviewed in compilation office by: J.A. Giles

date: Sept. 1948

Map Manuscript

Elevations on Field Edit Sheet  
checked by:

J.A. Giles

Sept. 1948  
date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 64

Shoreline (More than 200 meters to opposite shore): 30.7 Stat. Mi.

Shoreline (Less than 200 meters to opposite shore): 18.2 Stat. Mi.

Number of Recoverable Topographic Stations established: 29

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 76.5

Roman numerals indicate whether the item is to be entered by  
(II) Field Party, (III) Compilation Party, or, (VI) the Washington  
Office.

When entering names of personnel on this record give the surname  
and initials, not initials only.

Remarks:



MAP T. 8841

PROJECT NO. Ph-9(46)

SCALE OF MAP 1: 20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
MAY 1881, 1907	G.P. P.712	N.A. 1927	27° 40' 00.813				25.0	(1821.8)		
			80 22 59.305				1625.4	( 19.0)		
NARROWS, 1881, 1906	"	"	27 41 42.499				1308.2	( 538.6)		
			80 23 40.436				1107.9	( 536.1)		
RUTH, 1930	"	"	27 41 38.910				1197.7	( 649.1)		
			80 23 13.652				374.1	(1269.9)		
<del>HOLE IN THE WALL</del> 1881, 1906	<del>"</del>	<del>"</del>	<del>27 43 44.704</del>				<del>1376.0</del>	<del>( 470.8)</del>		
			<del>80 24 52.867</del>				<del>1448.1</del>	<del>( 195.4)</del>		
GRUB, 1934	P.155	"	27 44 02.518				77.5	(1769.4)		
			80 22 57.620				1578.2	( 65.2)		
VB-3, 1945	P.819	"	27 38 44.464				1368.6	( 478.2)		
			80 25 49.429				1354.9	( 289.8)		
<del>OSLO, 1934</del>	<del>P.155</del>	<del>"</del>	<del>27 37 46.411</del>				<del>1428.5</del>	<del>( 418.3)</del>		
			<del>80 23 51.506</del>				<del>1412.1</del>	<del>( 232.9)</del>		
VERO, 1934	P.128	"	27 38 19.968				614.6	( 1232.2)		
			80 29 30.881				846.6	( 798.2)		
AV6(FGS) 1934	P.819	"	27 38 45.230				1392.2	( 454.6)		
			80 26 48.078				1318.1	( 326.8)		
AV7(FGS) 1934	"	"	27 38 45.080				1387.6	( 459.2)		
			80 26 30.538				837.2	( 807.7)		
VERO BEACH, U.S.	P.820	"	27 38 45.04				1386.3	( 460.5)		
			80 25 12.82				351.5	(1293.4)		
AV 10 (FGS) 1934	P.818	"	27 38 45.699				1406.6	( 440.2)		
			80 23 59.906				1642.1	( 2.6)		

1 FT. = 3048006 METER

COMPUTED BY: R. Dossett

DATE 27 August 1947

CHECKED BY: R.R. Wagner

DATE 28 August 1947

M. 2388-12



MAP T-8841 PROJECT NO. Ph-9(46) SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR U-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
BM R 33, 1933	G.P.	N.A.	27 38 45.558			1402.3 ( 444.5)	
1945	P.819	1927	80 24 00.741			120.3 (1624.4)	
AV9-(FGS)1934	"	"	27 39 03.348			103.1 (1743.7)	
	P.818	"	80 24 04.440			121.7 (1523.0)	
VB-1, 1945	"	"	27 39 07.638			235.1 (1611.7)	
	P.819	"	80 24 20.247			555.0 (1089.7)	
VERO BEACH MUNICIPAL	"	"	27 38 13.403			412.5 (1434.3)	
WATER TANK, 1945	P.820	"	80 23 52.112			1428.7 ( 216.2)	
SCORPION, 1882	P.713	"	27 37 55.945			1722.0 ( 124.8)	
		"	80 22 30.541			837.3 ( 807.6)	
ATLANTIC BEACON NO. 13, 1945	same as VB-1	"	27 39 07.638	This is not a station. VB-1 is at the center of the base for this beach.			235.1 (1611.7)
		"	80 24 20.247			455.6 (1089.7)	
VB 2, 1945	P.819	"	27 38 43.971			1353.4 ( 493.4)	
		"	80 24 48.751			1336.4 ( 308.4)	
PRM-BY	USED	"	1,218,205.45	8,205.45 (1794.55)		2501.0 ( 547.0)	
		"	697,751.89	7,751.89 (2248.11)		2362.8 ( 685.2)	
PRM-CF	USED	"	1,237,920.68	7,920.68 (2079.32)		2414.2 ( 633.8)	
		"	687,083.06	7,083.06 (2916.94)		2158.9 ( 889.1)	
PRM - CG	USED	"	1,239,377.24	9,377.24 ( 622.76)		2858.2 ( 189.8)	
		"	689,180.67	9,180.67 ( 819.33)		2798.3 ( 249.7)	
PRM - BO	USED	"	1,207,169.18	7,169.18 (2830.82)		2185.2 ( 862.8)	
		"	701,625.49	1,625.49 (8374.51)		495.4 (2552.6)	
PRM-CE	USED	"	1,235,905.58	5,905.58 (4094.42)		1800.0 (1248.0)	
		"	691,026.75	1,026.75 (8973.25)		313.0 (2735.0)	

1 FT. = 3048006 METERS

COMPUTED BY: R. Dossett

DATE 15 March 1948

CHECKED BY: R. R. Wagner

DATE 16 March 1948

M-2388-12

MAP T. 8841 PROJECT NO. Ph-9(46) SCALE OF MAP 1: 20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR U-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
<del>VERO</del> PRM - CI	USED	N.A. 1927	1,241,973.11	1,973.11 (8026.89)		601.4 (2446.6)	
			687,895.14	7,895.14 (2104.86)		2406.4 ( 641.6)	
<del>VERO</del> PRM - BWH	"	"	1,216,132.66	6,132.66 (3867.34)		1869.2 (1178.8)	
			700,419.10	419.10 (9580.90)		127.7 (2920.3)	
<del>VERO</del> PRM - BX	"	"	1,215,769.77	5,769.77 (4230.23)		1758.6 (1289.4)	
			698,344.62	8,344.62 (1655.38)		2543.4 ( 504.6)	
<del>VERO</del> PRM - CBC	"	"	1,227,485.39	7,485.39 (2514.61)		2281.5 ( 766.5)	
			696,589.43	6,589.43 (3410.57)		2008.5 (1039.5)	
AV 5 (FGS) 1934	F.G.S.	"	1,201,589.18	1,589.18 (8410.82)		484.4 (2563.6)	
			679,120.47	9,120.47 (879.53)		2779.9 ( 268.1)	
AV-1 (FGS) 1934	F.G.S.	"	1,201,467.39	1,467.39 (8532.61)		447.3 (2600.7)	
			692,397.49	2,397.49 (7602.51)		730.8 (2317.2)	
Vero Beach, shore mast, top, 1945	P. 818	"	27 39 07.76			238.9 (1402.9)	
			80 24 18.77			514.5 (1130.2)	
VB, A Station, 1945 n.d.	P. 818	"	27 39 08.018	Not shown because not described			
			80 24 05.564	Not shown on MMS.			
AV 9 A, 1945 (FGS) n.d.	P. 819						
AV 7, offset, 1945 (FGS) n.d.	P. 819						
AV 6, offset, 1945 (FGS) n.d.	P. 819						

1 FT. = 3048006 METER

COMPUTED BY: R. Dossett

DATE 5 May 1948

CHECKED BY: W.W. Dawsey

DATE 5 May 1948

M-2988-12

FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE T-8841

"VERO BEACH"

N 2737.5 - W 8022.5/7.5

PROJECT PH-9(46)

29 MARCH 1948

1. DESCRIPTION OF THE AREA

This 7½ minute quadrangle lies wholly within Indian River County, Florida.

The principal cultural feature in this area is the city of Vero Beach, county seat of Indian River County. There are three small unincorporated villages; Gifford, Winter Beach and Wabasso.

The area on the western side of the quadrangle, about 2.0 miles west of U.S.No.1 is devoted entirely to the cultivation of citrus fruits. Its average elevation is about 19.0 ft. above mean sea level. It is interspersed with numerous drainage ditches.

The area immediately west of U.S.No.1 and F.E.C. RR is the highest in the quadrangle. It is a long narrow sand ridge covered with scrub oak brush and pine trees, with small scattered portions of citrus grove. Elevations of this area vary from 16.0 feet to 50.0 feet. The city of Vero Beach breaks the continuity of this ridge.

The area lying between the sand ridge and the citrus belt is undeveloped, covered with pine and palmetto, with an average elevation of 22.0 feet above mean sea level.

The area east of U.S.No.1 and west of the Indian River varies in elevation from mean sea level to about 14.0 feet. The majority of this area is devoted to the cultivation of citrus fruits.

The island east of Indian River is mostly low ground on the west side, rising to a narrow sand ridge, averaging 15.0 feet above mean sea level, about 100 ft. west of the M.H.W.L. of the Atlantic Ocean.

Vegetation in this area is composed of mangrove in the tidewater sections; palmetto and scattered palm trees grow on the highest areas, and there are a few scattered citrus groves along the west side of the island.



The principal cultural feature on this island is the road running northwest and southeast along its entire length.

2. COMPLETENESS OF FIELD INSPECTION

Field inspection was done on photographs Nos. 16371, 16384, 16385, 16387, 16388, 16389 by James E. Hundley and Wilber H. Nelson, during the period January - March 1948; in accordance with instructions for the project, dated 28 May 1947 and other pertinent instructions. It is believed to be adequate and complete, except for the extensive housing construction in progress in this area (field editor please note). *Noted by F.E.*

3. INTERPRETATION OF THE PHOTOGRAPHS

No great amount of difficulty was encountered in the interpretation of the photographs; however, clarification of tones is submitted.

The gray tones on both the east and west side of the Indian River, and on the islands in the River, appearing alone or between growths of mangrove, are marsh grass in extremely wet areas; whereas the gray tones on high ground west of the sand ridge on the mainland are grass and low palmetto bushes.

The extremely dark areas in the wooded section of the mainland are pine trees; in the low areas and islands, black mangrove. The lighter tones are mixed palm, palmetto and small mangrove.

4. HORIZONTAL CONTROL

Horizontal control within the quadrangle consisted of work of three separate surveys; U.S.C. & G.S., Florida State Geodetic Survey, and the U.S.E.D.

A search was made for all existing horizontal control, within the area.

It is believed that enough of the existing horizontal control in this area has been identified on the photographs to insure accurate control.

Two new reference marks were set for triangulation station VERO, 1934.

New directions were observed for existing reference marks at triangulation station MAY, 1881, 1930.

One sun azimuth for substitute point, VERO, 1934, was observed and computed.

5. VERTICAL CONTROL

All existing bench marks in this area were searched for and identified on the photographs.

Fly levels were run with a Wye level, and temporary bench marks were established at identifiable points on the photographs. All fly level lines were closed within the required accuracy and the records carefully checked. All lines with closures of ~~2~~ 0.30 ft. <sup>more than</sup> were adjusted. Recovered vertical control is shown on the photographs with a circle; name and elevation in blue ink. Fly level points are shown with a tick mark and labeled with the quadrangle designation letters "VB", and numbered consecutively with elevations shown to the nearest tenth of a foot, in blue ink.

The levels were run by James E. Hundley and Wilber H. Nelson.

6. CONTOURS AND DRAINAGE

The contouring in this area was done by a four man planetable party, directly on nine-lens photographs Nos. 16369, 16371, 16384 and 16385. The contour interval is five feet.

All planetable traverses of three setups or more were tied back to previously established level points and adjusted, if necessary.

There is no natural drainage in this area. Drainage for the area consists of 5 large canals with numerous connecting ditches.

The contouring was done by Wilber H. Nelson under the direct supervision of James E. Hundley.

7. MEAN HIGH-WATER LINE

The mean high-water line along the Atlantic Ocean has been delineated on photograph No. 16387. There is no evident mean high-water line on either side of Indian River, consequently, it has been indicated as apparent shoreline.

8. LOW-WATER LINE

No attempt was made to show the low-water line along the Atlantic Ocean because of abnormal high water at the time of the shoreline inspection. Generally, it is parallel to and very close to the high-water line.

9. WHARVES AND SHORELINE STRUCTURES

All existing wharves and shoreline structures have been indicated on the photographs.

10. DETAILS OFFSHORE FROM HIGH-WATER LINE

None.

11. LANDMARKS AND AIDS TO NAVIGATION

Two prominent features appearing on the photographs for this area were investigated in the field and pricked to be charted as landmarks, 1. N. GABLE OF WHITE HOUSE, located on a high sand ridge just west of the mean high water line of the Atlantic Ocean in the northeast corner of the quadrangle. 2. VERO BEACH MUNICIPAL WATER TANK, located in Vero Beach.

Four lights were indicated to be pricked direct. One light and four daybeacons were located by turning angles, either from known geographic positions previously identified and pricked on the photographs or identifiable photo points. Due to the natural topography of this area, it was possible to obtain only three angles for each light or beacon. These lights and beacons are located in that area covered by photographs Nos. 16387 and 16388. A list of directions, for the location of these lights and beacons, is being submitted along with all other pertinent data for the quadrangle.

12. HYDROGRAPHIC CONTROL

Not applicable.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There is one landing field located in this area. It was formerly a United States Naval Air Station. At present the landing strips and some of the buildings are leased to the Eastern Air Lines. Other parts of the area are under the supervision of the city of Vero Beach, with some buildings still controlled by the War Assets Administration. The field edit should determine its final disposition.

One aeronautical aid, Airway Bn. No.13, is located in the area. It has been identified and pricked on photograph No. 16389. (Note: Airway Bn. No.13 and VB-1, 1945 are one and the same in regards to G.P.)

14. ROAD CLASSIFICATION

All roads in this area have been classified in accordance with Photogrammetry Instructions No.10 and amendment dated 24 October 1947.

15. BRIDGES

There are no bridges over navigable waters in this area. The bridge over the Intracoastal Waterway at Winter Beach is in ruins, and existing ruins have been noted on the photograph.

16. BUILDINGS AND STRUCTURES

All buildings and structures to be shown have been indicated on the photographs in red ink. Deletions are in green ink.

17. BOUNDARY MONUMENTS AND LINES

Thirteen section corners were found and identified on photographs Nos. 16371, 16384, 16385.

All existing boundary lines in this area have been delineated on photographs Nos. 16384, 16385, 16387, 16388 and 16389, merely as a guide to assist the compiler in constructing these lines, from legal descriptions.

Boundaries will be the subject of a Special Report by Joseph K. Wilson, Cartographer, to be submitted at a later date.

*In File Section,  
Div. of Photography  
Project Report*

18. GEOGRAPHIC NAMES 814✓

This is the subject of a Special Report by Joseph K. Wilson, Cartographer, submitted to the Washington Office 8 January 1948.  
*In Geographic Name Section, Div. of Charts.*

19. TOPOGRAPHIC STATIONS

Seven topographic stations were established within the quadrangle.

20. JUNCTIONS WITH ADJOINING QUADRANGLES

Junctions have been made with quadrangle T-8888, to the north; T-8842, to the east; and T-8843, to the south. All junctions are in good agreement. There is no junctioning quadrangles to the west.

21. URBAN LIMITS

Urban limits for the city of Vero Beach have been delineated on photograph No. 16389 by the field inspector.

Submitted by:

*James E. Hundley*  
James E. Hundley  
Cartographer (Photo)

Supervised:

*William A. Rasure*

William A. Rasure  
Photogrammetric Engineer

Approved and forwarded:

*Ross A. Gilmore*  
Ross A. Gilmore  
Chief of Party



COMPILATION REPORT  
TO ACCOMPANY  
QUADRANGLE T-8841

26 AND 27. CONTROL AND RADIAL PLOT:

Triangulation station CUT, 1934, was reported "destroyed" by the field party. However, R.M. No. 1 was recovered and a Control Station identification card submitted. The position of the R.M. was plotted graphically on the map manuscript and held in the radial plot. It was also used by the compiler in establishing detail points. It is shown on the map manuscript with a 2.5 mm circle as its position may be of less than third order accuracy

Control station identification card for U.S.E.D. triangulation station PRM-CF, 1932, was not received until after the radial plot was made. The position of the station was plotted on the map manuscript by the compiler and the angle and distance laid out to the substitute point (RP-1). This Sub. Pt. was identified on photographs 16386 and 16387 and found to be in very good agreement with the radial plot, thus proving the U.S.E.D. position of station PRM-CF, 1932. The Sub. point is not shown since it was not used in the radial plot.

Further discussion of control will be found in the Special Report on Main Radial Plot, submitted on 17 May 1948, by Milton M. Slavney, Photogrammetric Engineer. In ~~File Section, Div. of Photogrammetry~~  
*Descriptive Report T-8623*

28. DELINEATION:

Photographs covered the area of the quadrangle satisfactorily. The scale is fair to good. Photographs used are as follows: 16369, 16371, 16384, 16305, 16387, 16388, and 16389. They are clear and very little difficulty was experienced in interpreting them.

Field inspection is excellent. Clarification of only a few details has been requested of the field editor.

29. SUPPLEMENTAL DATA:

A map of the City of Vero Beach was used as reference but proved of little value.

No other supplemental data was used.

30. MEAN HIGH-WATER LINE:

Refer to item 7 of the Field Inspection Report for discussion of this subject.

The mean high-water line along the Atlantic Ocean has been delineated as shown by the field inspector.

31. LOW-WATER AND SHOAL LINES:

The low-water line delineated along the Atlantic Ocean has been labelled approximate.

Shoal areas are negligible but have been outlined where definite.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

None that require further investigation.

33. WHARVES AND SHORELINE STRUCTURES:

These have been delineated as shown by the field inspector.

34. LANDMARKS AND AIDS TO NAVIGATION:

The field inspector recommends (for charting) two landmarks. Of these, N. GABLE OF WHITE HOUSE falls north of the limits of this quadrangle as well as the project limits. It will be identified on map manuscript T-8888 of Project Ph-19(47). VERO BEACH MUNICIPAL WATER TANK is the other recommended landmark. This tank is a triangulation station, being established in 1945. It is presently charted as a landmark.

Four lights were pricked direct on the photographs and cut in by radial plot methods. The positions of one light and three day-beacons were established from theodolite cuts. The position of day-beacon No. 154 could not be determined from the theodolite cuts and the field editor has been requested to locate it.

Form 567 showing the scaled positions of these nonfloating aids is submitted herewith as a part of this report.

35. HYDROGRAPHIC CONTROL:

None required.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

Reference is hereby made to item 13 of the Field Inspection Report for a discussion of this subject.

37. RECOVERABLE TOPOGRAPHIC STATIONS:

In addition to the nonfloating aids, for which Form 524 is being submitted, 13 section corners and 7 topographic stations have been established, their positions scaled and listed on Form 524.

38. GEOGRAPHIC NAMES: 01 ✓

Geographic Names have been applied to the map manuscript.

39. SECTION LINES AND BOUNDARIES:

City limits of Vero Beach and precinct boundaries have been delineated on the map manuscript.

Section lines have been shown over the entire manuscript excepting the northeast corner. An ozalid print of the map manuscript, showing the approximate location of the section lines in this area, has been prepared and the field editor is requested to locate points on the line if possible.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison was made with planimetric maps Nos. 4549 and 4550 which were compiled by the Coast and Geodetic Survey in 1930, at 1:20,000 scale. These maps were compiled on North American datum from aerial photographs taken by the Army Air Corps. Agreement is generally good. The shoreline along the Indian River compares very favorably; the only changes worthy of mention being the shape of some of the smaller islands and the bridge crossing the river at "Hole in the Wall Island," which no longer exists. The piling do remain, however, as shown on this map manuscript. Agreement between the shoreline along the Atlantic Ocean is excellent.

Inland planimetry agreed very well. Normal cultural changes over the past 18 years, such as new roads built and old ones abandoned, land reclaimed for citrus cultivation and some areas abandoned, were noted. Also, the Vero Beach Airport was constructed in the northwest section of the City and used as a Naval Air Station during World War II.

45. COMPARISON WITH NAUTICAL CHART:

Comparison was made with Intracoastal Waterway Chart No. 845, having a print date of 3 March 1947, scale 1: 40,000. The shoreline is in very good agreement with no major discrepancies. The bridge across the inland waterway at Pine Island no longer exists, only the piling remains.

This map manuscript should supersede the charted information.

*William H. Shearouse*  
William H. Shearouse  
Cartographer (Photo.)

Approved and Forwarded:

*Ross A. Gilmore*  
Ross A. Gilmore 9/10  
Lieut. Comdr. USC&GS  
Chief of Party.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

**TO BE CHARTED  
TQ/PH/SH/DI**

**STRIKE OUT ONE**

## NONFLOATING AIDS OR HANDMARKS FOR CHARTS

**Vero Beach, Florida**

**18 March 1945**

I recommend that the following objects which have ~~(been)~~<sup>(not been)</sup> inspected from seaward to determine their value as landmarks be charted on ~~(deleted)~~<sup>(added)</sup> the charts indicated.

The positions given have been checked after listing by **William H. Shearouse**

**ROSS A. JIMENEZ, C. C.** *Chief of Party.*

Chief of Party.

STATE <b>FLORIDA</b>		SIGNAL NAME	DESCRIPTION	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	LATITUDE			LONGITUDE		DATUM							
	°			'	°		'						
Lt. 128	Red triangular daymark with yellow border on white pile dolphin with light atop.	27	43	583	80	23	1538	NA	1927	2-5841	Radial Plot	4 Mar. 1948	845
Lt. 133	Lt. atop a black square daymark with yellow border on white pile dolphin.	27	42	1506	80	23	980	"	"	"	"	"	"
Lt. 136	Lt. atop a red triangular daymark with yellow border on white pile dolphin.	27	42	596	80	23	907	"	"	"	"	"	"
Lt. 141	Lt. atop a black square daymark with yellow border on pile structure.	27	41	1424	80	23	543	"	"	"	"	"	"
Lt. 145	Lt. atop a red triangular daymark with yellow border on white pile dolphin.	27	40	1349	80	23	02	"	"	"	"	"	"
Bn. 151	Black square daymark with yellow border on white pile.	27	40	1068	80	22	1305	"	"	"	"	"	"
Bn. 152	Red triangular daymark with yellow border on white pile.	27	40	999	80	22	1303	"	"	"	"	"	"
Bn. 153	Black square daymark with yellow border on white pile.	27	40	893	80	22	1123	"	"	"	"	"	"
Bn. 154	Red band and pointer with yellow top on white pile.	#	27	40	80	22		"	"	"	"	"	"
*Position of Bn. 154 to be submitted after field edit.													
** See March 2, 1949 list.													

\*Position of En. 154 to be submitted after field edit.

See March 2, 1949 list.



~~NOT TO BE CHARTERED~~

**STRIKE OUT ONE**

## NONFLUENT/FLUENT/FLUENT/FLUENT LANDMARKS FOR CHARTS

**Vero Beach, Florida**

18 March, 1948

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

The positions given have been checked after listing by William H. Shearouse

[illegible]

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

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

**NONRELATING/ADDING OR LANDMARKS FOR CHARTS**

TO BE DELETED  
REALLY/NOT

**STRIKE OUT ONE**

Varo Beach, Florida 18 March 1948

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be ~~phased out~~ ~~phased out~~ ~~phased out~~ the charts indicated.

The positions given have been checked after listing by

**Joseph K. Wilson**

ROSS A. GILMORE Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

## GEOGRAPHIC NAMES

Survey No. T-8841

GEOGRAPHIC NAMES		Survey No. T-8841										
2	Name on Survey	On Chart No.										1
		A	B	C	D	E	F	G	H	K		
	North Canal ✓										1	
	Cleve Hinton Creek ✓										2	
	Bee Gum Point ✓										3	
	Stingray Creek ✓										4	
	Stingray Point ✓										5	
	Chambers Cove ✓										6	
	Pope Point ✓										7	
	Johns Island ✓										8	
	Johns Island Creek ✓										9	
	South Sister Island ✓										10	
	North Sister Island ✓										11	
	Oyster Cut ✓										12	
	Barker Island ✓										13	
	Hole in the Wall Island ✓										14	
	Pine Island ✓										15	
	Sand Point ✓										16	
	Winter Beach ✓										17	
	South Winter Beach Road ✓										18	
	Copelands Landing ✓										19	
	Wabasso ✓										20	
											21	
											22	
											23	
											24	
											25	
											26	
											27	

Names underlined  
in red are approved  
9-19-49 L. Heck

M 234

Names underlined  
in red are approved  
9-19-49 L. Heck

## FIELD EDIT REPORT

QUADRANGLE T-8841

PROJECT PH-9 (46)

The field edit of this quadrangle was accomplished in accordance with Field Edit Instructions dated 24 August 1945, and Supplement I dated 4 February 1946. Actual field work was started 1 February 1949 and completed 16 February 1949.

### 46. METHODS

The field edit of this area was accomplished by riding out all passable roads. Other areas, in which the reviewer requested information or the field editor suspected weaknesses, were reached on foot or by boat.

Planetable, hand level, and tape methods were used to make corrections and additions not shown on the photographs. On the field edit sheet, red ink was used to show corrections and additions; green ink for deletions. On the photographs, black ink was used for contours. Other corrections, additions, and deletions on the photographs were inadvertently shown in the same color inks used by the field inspector. However, the photograph work is properly referenced, as to locality and photograph number, on the field edit sheet.

All field edit work was done on the photographs or field edit sheet. All work on the photographs is properly referenced along with the change and photograph number on the field edit sheet.

### 47. ADEQUACY OF COMPILATION

The map compilation is believed to be adequate with the corrections added by the field editor. However, considerable field work was necessary to incorporate numerous cultural changes and contour corrections.

### 48. ACCURACY TESTS

No accuracy tests were required for this quadrangle. However, it is believed that the map does comply with standard horizontal and vertical accuracy specifications. Information concerning the two nearest map accuracy tests was not available.

### 49. TOPOGRAPHIC EXPRESSION


The topographic expression is considered adequate.



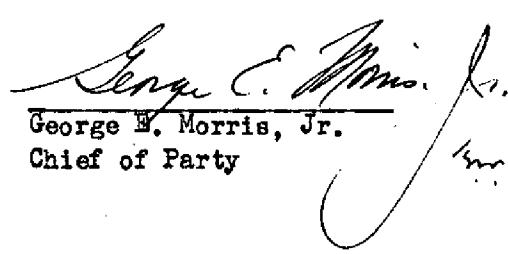
50. EXAMINATION OF PROOF COPY

It is believed that Mr. Harry W. Damerow, registered land surveyor and city engineer of Vero Beach, is best qualified to examine a proof copy of this quadrangle.

Submitted  
28 February 1949

  
James E. Hundley  
(Cartographer (Photo))

Approved and forwarded  
28 February 1949

  
George E. Morris, Jr.  
Chief of Party

Review Report T-8841  
Topographic Map  
Sept. 21, 1949

Subject numbers not used in this review report have been adequately covered in other parts of the descriptive report.

28 Detailing:

The <sup>vegeta</sup>tion classification along the junction between this map and the one to the north (T-8888) is not in agreement. T-8888 is in a different and more recent project and therefore, has the vegetation classification according to the more recent instructions No. 21 (8-18-48). To obtain a match along this junction, the classifications along the northern border of this survey (T-8841) were changed to agree with T-8888, using Wabasso Road as the dividing line.

The land lines east of the Indian River are not reliable so they have been shown with the dash line symbol.

34 Landmarks and aids to Navigation:

Form 567's submitted during Field Inspection and Field Edit are filed as Chart Letters No. 513 (1948) and 279(1949) respectively in the Nautical Chart Branch, Division of Charts. Carbon copies are attached to the Descriptive Report.

43 Comparisons with Previous Surveys:

T-1630 (1882) 1:20,000

T-4549(1930) 1:20,000

T-1544 (1880-1) 1:20,000

T-4550(1930) 1:20,000

*This map supersedes these surveys for nautical charting purposes.*

48 Accuracy

This map complies with national map accuracy standards.

51 Overlay

An overlay has been prepared showing control, road classifications, etc. This map will be edited and published by the U.S. Geological Survey.

52 Application to Nautical Charts:

This survey has not been applied to nautical charts prior to review.

Reviewed by:

Jack L. Rihn  
Jack L. Rihn  
Cartographer

Approved by:

S. V. Griffith  
Chief, Review Section *E.H.M.*  
Division of Photogrammetry

H. C. Edmonson  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Division of Photogrammetry

W. M. Acaife  
Chief, Div. of Coastal Surveys *W.M.*