

8888

Sebastian, Fla.

Diag. Cht. No. 1246

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Office No. T-8888

LOCALITY

State Florida

General locality East Coast

Locality Indian River & Brevard Counties

"Sebastian"

194 7-'49

CHIEF OF PARTY

G.E.Morris, Jr., Chief of Field Party

R.A.Gilmore, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE June 15, 1950

B-1870-1 (1)

DATA RECORD

T- 8888

Quadrangle (II): SEBASTIAN, FLA.

Project No. (II): Ph-19(47)

Field Office: Melbourne, Florida Chief of Party: George E. Morris, Jr.

Compilation Office: Tampa, Fla. Chief of Party: Ross A. Gilmore

Instructions dated (II III): Oct. 21, 1946
May 28, 1947Office Files, Div. of Photo-
Copy filed in Descriptive
~~Report No. P-~~ (VI) *grammetry*Completed survey received in office:
12-10-48

Reported to Nautical Chart Section:

Reviewed: 10 Nov 49

Applied to chart No. 845

Date: 11/14/49

Redrafting Completed:

Registered: 26 APR 50

Published:

Compilation Scale: 1: 20,000

Published Scale: 1: 24,000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927 ✓

Datum Plane (III): M.S.L. ✓

Reference Station (III): SEBASTIAN 2, 1907 ✓

Lat.: 27° 49' 00.766 (23.6m) ✓

Long.: 80° 28' 13.214 (361.7m) ✓

Adjusted
~~Unadjusted~~

State Plane Coordinates (VI): Florida East Zone

X = 671,209.53 Ft.

Y = 1,266,445.49 Ft.

Military Grid Zone (VI)

16370
386
PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
47J384	Dec. 8, 1947	1302	1: 20,000	Av. (Cape Canaveral (City Dock) Ft. Pierce Inlet Ft. Pierce Breakwater)
to 47J389 incl.	"	1304	"	/ 1.1
47J443	"	10:48	"	/ 0.1
to 47J448 incl.	"	10:50	"	/ 0.29

+37
43

Ref. Sta.	SUB. STATION
Tide from (III): Mayport	Ft. Pierce (City Dock)
Ave. between /	Cape Canaveral
	Ft. Pierce Inlet (Breakwater)
Mean Range: Atlantic Ocean @ 2.6	Spring Range: Atlantic Ocean ----- 3.0
Indian River 0.7	Indian River ----- 0.8
Camera: (Kind or source)	W. A. & G. S. Nine lens 2 1/2 foot length

Field Inspection by: Leo F. Beugnet date: March, 1948

Field Edit by: J E Hundley date: Feb 1941

Date of Mean High-Water Line Location (III): Feb. - April, 1948

Projection and Grids ruled by (III) WEW (W.O.) date: Feb. 16, 1948

" " " checked by: WEW (W.O.) date: Feb. 16, 1948

Control plotted by: R.R. Wagner date: June 30, 1948

Control checked by: B.F. Lampton date: July 2, 1948

Radial Plot by: M.M. Slavney date: Aug. 12, 1948

Detailed by: R.A. Reece date: Sept.-Oct. '48

Reviewed in compilation office by: J.A. Giles date: Oct. '48

Map Manuscript
Elevations on ~~Field Edit Sheet~~
checked by: J.A. Giles date: " "

STATISTICS (III)

Land Area (Sq. Statute Miles): 21.7

Shoreline (More than 200 meters to opposite shore): 44 Statute miles

Shoreline (Less than 200 meters to opposite shore): 4 " "

Number of Recoverable Topographic Stations established: 10

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - Miles: 22.5 miles

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

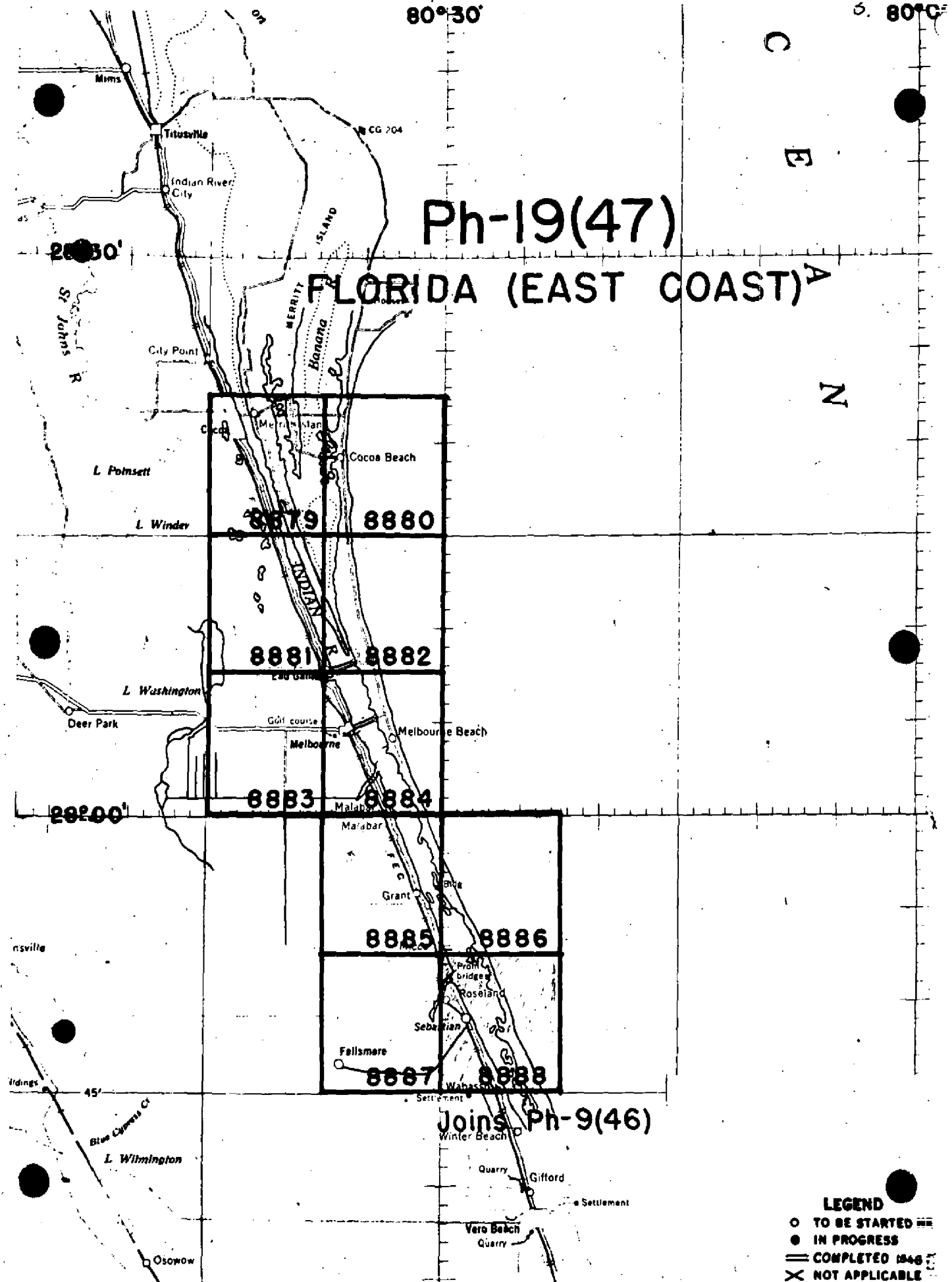
When entering names of personnel on this record give the surname
and initials, not initials only.

Remarks:

80°30'

80°0'

Ph-19(47)

FLORIDA (EAST COAST)^A

LEGEND

- TO BE STARTED
- IN PROGRESS
- == COMPLETED 1948
- X NOT APPLICABLE

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Summary to Accompany T-8888

Topographic map T-8888 is one of 10 similar maps in project Ph-19(47) and is the southeasterly map in the project. It covers part of Indian River, Florida. This is a graphic compilation project. The field operations preceding compilation included complete field inspection, the establishment of some additional horizontal control, and the delineation of the contours on the photographs by planetable methods. The manuscript was at a scale of 1:20,000. The entire map was field edited. The map is to be published by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle. The registered copies under T-8888 will include a cloth-mounted print of the manuscript at a scale of 1:20,000 and a cloth mounted color print at a scale of 1:24,000.

FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE T-3888

"SEBASTIAN"

N2745 - W8022.5/7.5

PROJECT PH-19(47)

5 APRIL 1948

1. DESCRIPTION OF THE AREA

This quadrangle lies within Indian River and Brevard Counties on the east coast of Florida. The area contains approximately 22 square miles of land.

Elevations range from sea level, to 50 feet on the highest sand dune near the southern boundary of the quadrangle, and to the north of the town of Wabasso.

The principal cultural features of this quadrangle are: the incorporated town of Sebastian, which lies in the central part of the quadrangle, on the west shore of the Indian River; a part of the unincorporated town of Wabasso, in the south central part of the quadrangle; U. S. Highway No. 1 and the Florida East Coast Railroad, which run in a north-south direction through the quadrangle; the Trans Central Railroad and Florida State Highway 512, which run in a southwesterly direction from the city of Sebastian.

The principal cultivated areas of any commercial value within the limits of this quadrangle are citrus groves and the tomato farms, along both shores of the Indian River.

The natural vegetation is composed mostly of mangrove along the edge of the tidal waters, and scattered pine, palmetto, palms, and grass in the low areas. The uncultivated parts of the ridges are covered mostly with thick spruce pine.

The sand ridge along the shore of the Atlantic Ocean is covered with palmetto and a few scattered palms; while the area immediately to the west of the ridge is covered with a heavy growth of palms, palmetto and other types of under brush.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection of this quadrangle was done in accordance with Project Instructions for Ph-9(46) dated 28 May 1947 and other general instructions. At the time of field inspection, no instructions for project Ph-19(47) had been received.

Special attention is called to Sebastian Inlet and the area immediately surrounding the inlet. At the time the photographs were taken the inlet was open, however, since that time the mouth of the inlet has become closed by sand. The future condition of the inlet is unknown at this time; however, drag lines are still at work in the area.

The inlet and its surrounding area will bear a complete investigation by the field edit party at the time of field edit. *Refer to field edit report and review report in this Desc Rpt*

Field inspection was done on photograph No. 47-J-438; photographs Nos. 47-J-384 to 47-J-388 inclusive, and Nos. 47-J-443 to 47-J-448 inclusive.

3. INTERPRETATION OF THE PHOTOGRAPHS

In most cases the photographs could be readily interpreted. The color tone varies from white in the sand areas to black in the deep waters. Brush and palmetto with scattered pine appear to have a gray tone with mottled texture; heavy pine a dark steel tone; mangrove appears almost black; while dense palm and brush appears to have a very dark gray tone.

4. HORIZONTAL CONTROL

The horizontal control within the limits of this quadrangle consists of that established by three agencies: The U.S.C. & G.S., U.S.E.D., and the Florida Geodetic Survey.

A thorough search was made for all stations in the quadrangle. A total of seven U.S.C. & G.S. and four U.S.E.D. triangulation stations were recovered and identified on single lens photographs for control of the radial plot.

A new reference mark was established at triangulation station BASS, 1934 and at triangulation station BEAUJEANE, 1930.

A traverse line, of 3rd order accuracy, was run in the west central portion of this area to supplement existing control.

Four of nine traverse points temporarily established along this line have been identified on the photographs for this area and are the following:

Traverse Point 6	Photo No. 47-J-437
Traverse Point 7	Photo No. 47-J-446
Traverse Point 8	" " "
Traverse Point 9	" " "

5. VERTICAL CONTROL

A search was made for all bench marks within the limits of this quadrangle. A total of three (3) U.S.C. & G.S., five (5) Florida Geodetic Survey and four (4) U.S.E.D. bench marks were recovered and used to establish vertical control for this quadrangle.

Fly level lines were run with a wye level along the principal roads to provide a base for planetable contouring. Temporary bench marks were established at identifiable picture points and marked either with a bottle cap or stake. All level lines were closed within the required accuracy and records carefully checked. Level points are shown on the photographs with a cross, labeled with the quadrangle designation letters "SE" and numbered consecutively in blue with elevations shown to the nearest hundredth.

6. CONTOURS AND DRAINAGE

Contouring was done by a four man party, using standard planetable methods on single lens photographs Nos. 47-J-384 to 47-J-388 inclusive, 47-J-444 to 47-J-448 inclusive and 47-J-436 to 47-J-438 inclusive.

All planetable traverses of three setups or more were tied back to level points with a closure of 0.5 foot or less and adjusted.

The only natural drainage in this quadrangle is the Sebastian River which drains from west to east near the northern part of the quadrangle.

The ponds within the area are of both the perennial and intermittent type. Perennial ponds generally have a more definite outline than do the intermittent ponds. Classification of ponds should not be difficult with the number of examples noted on the photographs.

7. MEAN HIGH WATER LINE

The mean high water line along the Atlantic Ocean has been delineated on the photographs with standard symbols at frequent intervals.

There is no evident mean high water line on either side of the Indian River, and therefore it has been indicated as apparent shoreline.

8. LOW WATER LINE

Due to excessive high tides at the time of shoreline inspection the low water line could not be accurately determined. The approximate low water line has been shown on the photographs. Generally, the low water line is parallel and very close to the high water line.

9. WHARVES AND SHORELINE STRUCTURES

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

10. DETAILS OFFSHORE FROM HIGH WATER LINE

No details offshore for investigation by the hydrographic party were noted.

11. LANDMARKS AND AIDS TO NAVIGATION

Seven lights along the Intracoastal Waterway were identified and indicated for pricking on the photographs. These lights were not pricked, since the prick point would obscure them; and it was thought more feasible to leave them visible.

Two prominent features within the quadrangle were identified and are recommended for charting as landmarks. "Aero" which was formerly located at Latitude $27^{\circ}49.5'$; Longitude $80^{\circ}30.2'$, on chart No. 1246 has been moved to a new location. This is recommended to be deleted from its former position and charted at its new location. The water tank on top of the Sebastian hotel, in the city of Sebastian, has been identified on the photographs and is recommended to be charted.

12. HYDROGRAPHIC CONTROL

No hydrographic signals are required in this project.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There is one landing field within the limits of this quadrangle located west of the city of Sebastian. This was formerly a U. S. Naval Satellite Field, but is now inactive. The field editor should check its final disposition. *Roseland Airport - refer to attached geographic names list. Verification of disposition of this field pending with Aeronautical Chart Br. W.M. 5/1/50*
Airway Beacon No. 14 now falls within this quadrangle and is located near the settlement of Roseland.

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

Clearances of all bridges over navigable waters were checked with the U. S. Engineers "List of Bridges over navigable waters in the U.S.", revised to 1 July 1941. All clearances were carefully measured with

11.

~~5~~

a steel tape. The published descriptions and clearances were found to be correct except for one discrepancy. The vertical clearance of the F.E.C. RR bridge over the Sebastian River near Roseland was found to be 12.4 ft. M.H.W. instead of 11.0 ft. as reported by the "List of Bridges over navigable waters in the U.S." Discrepancies will be reported in a special project report.

Filed in Div. Photogrammetry General Files.

16. BUILDINGS AND STRUCTURES

All buildings to be shown have been circled with red ink on the photograph. In congested areas those not to be shown have not been deleted, but in sparsely settled areas those not to be shown have been deleted in green.

17. BOUNDARY MONUMENTS AND LINES

A search was made for all section corners within the limits of the quadrangle. A total of ten (10) section corners and quarter corners were recovered and identified on the photographs.

There is a discrepancy of approximately 700 feet in the south boundary of the Fleming Grant as shown on the Government Land Plats and the line as accepted on the ground by local residents. The south line of the Fleming Grant, as shown on the photographs, is the line accepted by local residents. *See Review Report*

The Roseland Airport boundary, as shown on the photographs, is the line found monumented on the ground.

Due to the discrepancy in the Fleming Grant line no attempt was made to show the precinct lines on the photographs.

The city limits of the city of Sebastian is not monumented. The limits of the city of Sebastian as shown on the photographs are approximate.

A legal description of all boundaries will be submitted in a Special Report on Boundaries, Project Ph-19(47) and it is believed that precinct lines and the county line can be accurately compiled from this report.

Filed in Div. of Photogrammetry.

18. GEOGRAPHIC NAMES 814

This will be the subject of a Special Report for Project Ph-19(47) by Lowell I. Bass. *On file in Geographic Name Section, Div. of Charts.*

19. TOPOGRAPHIC STATIONS

A total of ten (10) topographic stations were established in this quadrangle. These consisted of permanent natural objects or standard topographic station monuments.

20. JUNCTIONS

A junction was made with quadrangle T-8841 to the south, quadrangle T-8887 to the west and quadrangle T-8886 to the north. All junctions were in good agreement. There is no adjoining quadrangle to the east.

Submitted by:

Leo F. Beugnet
Leo F. Beugnet
Engineering Aid.

Approved and forwarded:

George E. Morris, Jr.
George E. Morris, Jr.
Chief of Party

MAP T-8888

PROJECT NO Ph-19(47)

SCALE OF MAP 1: 20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -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)
LAST 2, 1934	G.P. P.155	N.A. 1927	27 46 00.891 80 23 58.447				27.4 (1819.5)			
HOLT, 1934	" P.127	"	27 48 00.247 80 25 02.913				7.6 (1839.3)			
BASS, 1934	" P.127	"	27 51 43.965 80 26 55.066				79.7 (1562.7)			
BEAUJEANE, 1930	" P.180	"	27 51 42.20 80 26 54.03				1353.3 ((493.6)			
WHITE 3 RM, 1906	" P.154	"	27 52 06.239 80 29 40.338				1506.5 (135.0)			
PRM 1933(USED), PRM 1934	" P.180	"	27 52 07.138 80 29 40.883				1299.0 (547.9)			
C-8 (USE), 1934	" P.180	"	27 49 00.790 80 28 12.761				147.8 (163.3)			
SEBASTIAN 2, 1907	" P.154	"	27 49 00.766 80 28 13.214				192.0 (1654.9)			
FORT, 1930	" P.712	"	27 48 24.853 80 26 41.575				1103.5 (537.9)			
DUCK point 2, 1930	" P.712	"	27 46 45.338 80 26 36.550				219.7 (1627.2)			
SUB, 1930	" P.180	"	27 48 01.844 80 25 01.703				1118.4 (523.0)			
SEBASTIAN LONG- STATION, 1907	Not plotted because it is ^{only} 2.9 meter south west of Sebastian 2, 1907.						24.3 (1822.6)			
							349.3 (1272.9)			
							23.6 (1823.3)			
							361.7 (1280.5)			
							765.0 (1081.9)			
							1138.0 (504.3)			
							1395.6 (451.3)			
							1000.7 (642.0)			
							56.8 (1790.1)			
							46.6 (1595.8)			

1 FT. = 3048006 METER

COMPUTED BY: E.C. Andrews

DATE April 20, 1948

CHECKED BY: R.R. Wagner

DATE April 30, 1948

M-2388-112

MAP T- 8888

PROJECT NO. Ph-19(47)

SCALE OF MAP 1: 20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR N- COORDINATE LONGITUDE OR E- 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)
PRM - CK 1932 (USE)	Jax Off. U.S. Engr.	N.A. 1927	1,245,056.74 687,394.68	5,056.74 (4943.26)		1541.3 (1506.7)	
PRM -JRR 1932 (USE)	"	"	1,244,871.44 689,777.13	4,871.44 (5128.56)		1484.8 (1563.2)	
PRM - CL 1932 (USE)	"	"	1,248,137.05 681,766.88	8,437.05 (1562.95)		2571.6 (476.4)	
PRM CQ 1932 (USE)	"	"	1,278,183.67 677,224.15	8,183.67 (1816.33)		2494.4 (553.6)	
PRM - CJ 1932 (USE)	"	"	1,243,175.15 684,566.61	7,224.15 (2775.85)		2201.9 (846.1)	
FELLSMERE SEBASTIAN TP-6	Field Comp.	"	27 46 46.784 80 29 49.655	3,175.15 (6824.85)		967.8 (2080.2)	
TP - 7	"	"	27 47 29.061 80 29 11.761	4,566.61 (5433.39)	<i>These traverse points are road intersections and were used to control the radial</i>	1391.9 (1656.1)	
TP - 8	"	"	27 48 12.617 80 28 32.709	<i>They are not marked, so they have been shown with a circle and not a triangle on the manuscript.</i>		894.5 (952.3)	
TP - 9	"	"	27 48.35,593 80 28 12.105			322.0 (1320.6)	
PRM - CK 1932 PRM - JRR 1932 PRM - CL 1932 PRM - CQ 1932 PRM - CJ 1932 PRM - 1933 (USED), 134 61.110	Jax.Off. U.S. Engr.	"	1,285,233.07 663,260.27	5,233.07 (4766.93)		388.4 (1458.5)	
RUN 1945 (USE)	"	"	1,259,472.17 675,514.98	3,260.27 (6739.73)		895.3 (747.0)	
PRM-CN 1932 (USE)	"	"	1,254,527.82 683,237.22	9,472.17 (527.83)		1095.6 (751.2)	
				5,514.98 (4485.02)		331.3 (1310.9)	
				4,527.82 (5472.18)		1595.0 (1453.0)	
				3,237.22 (6762.78)		993.7 (2054.3)	
						2887.1 (160.9)	
						1681.0 (1367.0)	
						1380.1 (1667.9)	
						986.7 (2061.3)	4

1 FT. = 304800.8 METER

COMPUTED BY: E.C. Andrews

DATE April 20, 1948

CHECKED BY: R.R. Wagner

DATE April 30, 1948

M-2388

SCALE FACTOR

MAP T. 8888

PROJECT NO. Ph-19(47)

SCALE OF MAP 1: 20,000

SCALE FACTOR

[illegible]

16.

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8888
"SEBASTIAN"

26 AND 27. CONTROL AND RADIAL PLOT:

These items will be the subject of a special report to be submitted in the near future by M.M. Slavney, Photogrammetric Engineer. *Filed in Div. of Photogrammetry*

28. DELINEATION:

1:20,000 scale single lens ratio photographs were used in the delineation of this map manuscript. They were clear and of good scale and adequately covered the area of the quadrangle. No difficulties were encountered in the delineation from these photographs.

Field inspection was adequate with few discrepancies calling for further investigation by the field editor. These have been noted on the discrepancy overlay.

29. SUPPLEMENTAL DATA:

None available.

30. MEAN HIGH-WATER LINE:

The mean high-water line was delineated according to the field inspector's notes on the field photographs.

31. LOW-WATER AND SHOAL LINES:

The low-water and shoal lines were delineated according to the field inspector's notes on the field photographs.

32. DETAILS OFFSHORE FROM HIGH-WATER LINE:

Near Sebastian Inlet in the Indian River several piling are shown on the nautical chart and a rock is shown on the ocean side. These were neither deleted nor recovered by the field inspector.

33. WHARVES AND SHORELINE STRUCTURES:

These are shown on the map manuscript according to field inspection notes.

34. LANDMARKS AND AIDS TO NAVIGATION:

Three prominent features within the quadrangle considered suitable for landmarks were located by the radial plot method. Only two were identified by the field inspector of this quadrangle; see Field Inspection Report, item No. 11. The third landmark, NORTH GABLE WHITE HOUSE, was identified and recommended for charting by the field inspector of quadrangle T-8841, Project Ph-9(46). Airway Beacon No. 14 ("AERO")

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has been moved from its previously charted position (See item No. 11 of Field Inspection Report) and has been radially located and is submitted on Forms 524 and 567. *See Review Report.*

Form 524 filed in Div. Photogrammetry General Files

Seven non-floating aids to navigation lie within the limits of this quadrangle. They were located by the radial plot method and are listed on Form 567. *See Review Report.*

35. HYDROGRAPHIC CONTROL:

None required in this project.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

See items No. 11 and 13 of the Field Inspection Report.

37. BRIDGES:

All bridges were shown according to field inspector's notes. Clearances for three bridges over navigable waters are given.

See Field Inspection Report item No. 15 for additional bridge data.

38. BOUNDARIES AND SECTION CORNERS:

Boundary lines shown on this map manuscript are as follows: Indian River and Brevard County line, a portion of the Roseland Airport boundary, a portion of the Fleming Grant, city limits of Sebastian, precinct 6A and 6B of Brevard County, and precincts 1 Roseland, 2 Sebastian and 3 Wabasso of Indian River County.

Ten section and quarter section corners were recovered by the field inspector and are shown according to his notes.

Section lines have been constructed on an ozalid print of the map manuscript and will be inked on the map manuscript after verification by the field editor.

Fleming Grant has been divided into what is apparently a block system. These division lines junction with those on map manuscript T-8887. One boundary monument ($27^{\circ} 50'15$, $80^{\circ} 29'4$) supposed by the Field Inspector to be on the Fleming Grant line falls outside of the line made by other monuments on the line. This discrepancy has been noted on the overlay. *See Review Report.*

18.

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Attention is called to the Special Report on Boundaries for this project regarding discrepancies in the vicinity of Sebastian. Precincts 1 Roseland and 2 Sebastian could not be completed in this area and have been noted on the discrepancy overlay.

The city limits of Sebastian are shown as indicated on the field photograph. The legal description was of little value to the compiler as most of the lines are referenced to lots which could not be located in this office. See *Field Edit Report, P 50.*

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

No topographic quadrangle was available for comparison.

Comparison was made with planimetric map No. 4550, 1: 20,000 scale, compiled by the U.S. Coast and Geodetic Survey in 1930. The comparison showed good agreement of all important details. Discrepancies considered worthy of note have been shown on the overlay.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the 1: 40,000 scale Coast and Geodetic Survey Nautical Chart No. 845 bearing a print date March 3, 1947. Agreement was good with few discrepancies worthy of note.

An intricate road pattern which falls in the southwest portion of the quadrangle is no longer in existence and should be deleted from the nautical chart. See item No. 32 of this report.

This map manuscript should supersede the present charted information.

Respectfully submitted,

Richard A. Reece
Richard A. Reece, *RRG*
Photogrammetric Aid

Approved and Forwarded:

Ross A. Gilmore
Ross A. Gilmore 12/3/48
Chief of Party.

19.

FIELD EDIT REPORT

QUADRANGLE T-8888

PROJECT PH-19(47)

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 18 February 1949 and completed 23 February 1949.

46. METHODS

Field edit was accomplished by traversing, via truck, all passable roads; and by walking to other areas in which the reviewer requested information, or for a general check on the adequacy of the map compilation.

Planetable and tape methods were used to locate 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. All corrections made on the photographs are shown in black ink.

The reviewers questions are answered on the discrepancy print and section line discrepancy print whenever possible. All other work was shown on the photographs or field edit sheet. All work shown on the photographs is properly referenced on the discrepancy print or the field edit sheet.

47. ADEQUACY OF COMPILATION

The map compilation is believed to be adequate with the corrections added by the field editor.

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 of the quadrangle is considered adequate.

50. CITY LIMITS OF SEBASTIAN

No legal description was available in the City Hall of the town. However, it is understood that a complete legal description, taken from the Special Acts of the Florida Legislature, was submitted with the special boundary report for the project.

A description written by the field editor from the only map available in the City Hall is submitted with the field edit data. The present city limits as outlined in this description were approved as being correct by Mr. Earl Peterson, City Clerk. *See description following this report.*

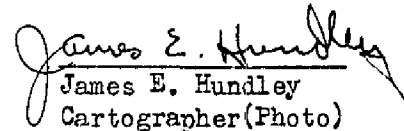
51. SEBASTIAN INLET

Considerable dredging was done in 1948 on a channel as shown on photograph 47-J-384(1 of 2). However, the dredging operation was apparently abandoned prior to completion, and the channel at present is unnavigable by even small boats. *See Review Report.*

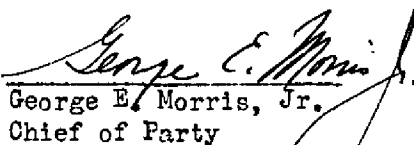
52. EXAMINATION OF PROOF COPY

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
8 March 1949


James E. Hundley
Cartographer(Photo)

Approved and forwarded
9 March 1949


George E. Morris, Jr.
Chief of Party

STRIKE OUT ONE

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

Melbourne, Florida 14 April, 1948

The positions given have been checked after listing by

John D. Weller

George H. Morris, Jr.

Chief of Party.

[illegible]

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NON-FLOATING AIDS/OR LANDMARKS FOR CHARTS

STRIKE OUT ONE

TO BE CHARTED

Helbourne, Florida

14 April 1948

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

The positions given have been checked after listing by

Richard A. Heede

Tampa Photogrammetric Office

George E. Morris, Jr. *Chief of Party.*

[illegible]

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Melbourne, Florida

14 April

19 48

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

The positions given have been checked after listing by

Richard A. Reese

Tampa Photogrammetric Office

George E. Morris, Jr. Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE	LONGITUDE	D. M. METERS	D. P. METERS	DATUM					
FLORIDA	LT. 67	Indian River South Light 67. Black square daymark, yellow border on pile structure.		27 52	360	80 29	220	NA 1927	Radial Plot	March 1948	X		845
	LT. 68	Indian River South Light 68. Red triangle daymark, yellow border, on pile structure.		27 51	1110	80 28	1568	2 "	"	"	X		"
	LT. 73	Indian River South Light 73. Black square daymark, yellow border, on pile structure.		27 50	1362	80 28	688	"	"	"	X		"
	LT. 83	Indian River South Light 83. Black square daymark, yellow border, on pile structure.		27 48	1383	80 27	831	"	"	"	X		"
	LT. 89	Indian River South Light 89. Black square daymark, yellow border, on white pile dolphin.		27 47	883	80 26	1099.5* 913	"	"	"	X		"
	LT. 94	Indian River South Light 94. Red triangle daymark, yellow border, on white pile dolphin.		27 46	325	80 25	1311	"	"	"	X		"
	LT. 99	Indian River South Light 99. Black square daymark, yellow border, on white pile dolphin.		27 45	1634	80 25	339	"	"	"	X		"
changed to '97 NM 22 1948 H&G								* Scaled from T. 8868	W&M				23

* Scaled from T. 8868 W&M

Position of charted landmarks and nonfloating

DESCRIPTION
OF
CITY OF SEBASTIAN

The following description was taken from the only map available in the city hall, and the present limits as outlined below were approved as being correct by Mr. Earl Peterson, City Clerk:

Beginning at the Southeast corner of fractional Section Six (6), Township Thirty-One South (T31S), Range Thirty-Nine East (R39E), at the West bank of Indian River; thence West along the South line of said Section Six (6) to the Southwest corner of the Southeast quarter ($\frac{1}{4}$) of the Southwest quarter ($\frac{1}{4}$) of said Section Six (6); thence North along the West line of the East half of the Southwest quarter ($\frac{1}{4}$) to the Northwest corner of the Northeast quarter ($\frac{1}{4}$) of the Southwest quarter ($\frac{1}{4}$) of said Section Six (6); thence West along the North line of the Southwest quarter ($\frac{1}{4}$) to the Northwest corner of the Southwest quarter ($\frac{1}{4}$) of said Section Six (6); thence North along West line of said Section Six to the South line of Fleming Grant; thence Northeasterly along said grant line Six Hundred and Sixty (660) feet; thence North Forty-Five Degrees West ($N45^{\circ}W$), Six Hundred and Sixty (660) feet; thence North Forty-Five Degrees East ($N45^{\circ}E$), Fourteen Hundred (1400) feet to the West Right-of-Way of the Florida East Coast Railway; thence Northwesterly along said West Right-of-Way Twenty-Two Hundred and Fifty (2250) feet; thence North Forty-Five Degrees East ($N45^{\circ}E$), Twelve Hundred and Seventy-Five (1275) feet to the East line of Fleming Grant; thence Northwesterly Two Hundred and Twenty-Five (225) feet along said grant line; thence due East to the channel of Indian River; thence Southeasterly along the channel of Indian River to an intersection of said channel with the South line of Section Six (6), extended; thence East to the point of beginning.

Submitted
28 February 1949

James E. Hundley
James E. Hundley
Cartographer(Phot)
H

GEOGRAPHIC NAMES

Survey No. T-8888

SEBASTIAN 7½' quad., Fla.

1 Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
Florida								USGB	1
Brevard County ✓									2
Indian River County ✓									3
Indian River ✓									4
Intracoastal Waterway								USGB	5
U.S. No. 1									6
State No. 512									7
Florida East Coast ✓									8
Trans Florida Central									9
Wabasso ✓									10
Wabasso Beach ✓									11
Pine Island ✓									12
Pine Island Bay ✓									13
Wabasso Island ✓									14
Michael Creek ✓									15
Michael Island ✓									16
South Point ✓									17
East Channel ✓									18
Preachers Hole ✓									19
Preachers Island ✓									20
Spratt Creek ✓									21
Pauls Island ✓									22
Pelican Island ✓									23
Spratt Point ✓									24
Green Point ✓									25
Turtle Pen Slough ✓									26
Collins Hole ✓									27

GEOGRAPHIC NAMES

Survey No.

T-8888

26.

2 Name on Survey

A

B

C

D

E

F

G

H

K

Melba Island ✓

1

Black Point ✓

2

Big Slough ✓

3

South Hole ✓

4

North Hole ✓

5

News Cut ✓

6

Sebastian Creek ✓

7

Sebastian ✓

8

Macedonian Baptist Church *no*

9

Fleming Grant ✓

10

Roseland Airport ✓

11

Roseland ✓

12

Roseland Chapel *no*

13

Chobie Dock ✓

14

Cocomut Point ✓

15

Sebastian Inlet ✓

16

Campbell Pocket ✓

17

Long Point Creek ✓

18

Long Point ✓

19

Mud Hole ✓

20

Sand Point ✓

21

Sebastian Public School *no*

22

Cummings ✓

Names underlined in red are approved, based on recent report on names of the area. Subject to final check by Field Edit.

Duck Point ✓

24

12/24/48 L. Heck

25

26

27

M 234

Review Report T-8888
Topographic Map
10 November 1949

62. Comparison with Registered Topographic Surveys.-
This survey supersedes common areas on T-1478 (1879) 1:20,000, T-1544 (1880) 1:20,000 and T-4550 (1930) 1:20,000 for nautical charting purposes.
63. Comparison with Maps of Other Agencies.-
None
64. Comparison with Contemporary Hydrographic Surveys.-
None
65. Comparison with Nautical Charts.-No. 845, 8-9-48, 1:40,000. The chart does not show the new channel under construction at the time of the field edit 23 February 1949 at Sebastian Inlet. There is a note on the manuscript that this channel is under construction; it is shown as indicated by the field editor on the photograph.
66. Adequacy of Results and Future Surveys.-This map complies with national map accuracy standards.
67. Navigational Aids and Landmarks.-Aids and landmarks are listed on form 567 and filed as Chart Letter No. 690 (48) in the Division of Charts. See carbon copies following Field ~~Inspection~~ ^{Edit} Report.
68. Boundaries.-The southeast boundary of Fleming Grant is the line accepted by local residents, not the line as shown on the G. L. O. plats. The six boundary monuments shown on it are consistent with the limits of the City of Sebastian.

The discrepancy mentioned in paragraph 38 of the Compilation Report was resolved during the review. An error was found in the pricking of one of the monuments on the adjoining quad T-8887.

69. Overlay.-An overlay has been prepared showing road classification, control, etc.

Reviewed by:

Jack L. Rihn
Jack L. Rihn
Cartographer

APPROVED

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

O. S. Reading
Chief, Division of Photogrammetry

H. Edmiston
Chief, Nautical Chart Branch
Division of Charts

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

HISTORY OF HYDROGRAPHIC INFORMATION

T-8888, Florida

Hydrography was applied to this manuscript in accordance with Division of Photogrammetry request of November 21, 1949; and with general specifications of May 18, 1949.

*omitted from
registered copy*

The depths are in feet at mean low water, and originate with the following surveys and charts:

H-1491a	(1881)	1:20,000
H-1491b	(1881)	1:20,000
H-5028	(1930)	1:20,000
H-5032	(1930)	1:40,000
H-5039	(1930)	1:40,000
Chart 845	1:40,000, printed 1/23/50, corrected 2/6/50.	
Chart 1246	1:80,000, printed 4/4/49, corrected 2/6/50.	

The depth curves are drawn at 6, 12, 18, and 30 feet.

Depths are not available for the dredged Sebastian Inlet.

The hydrography was compiled by R. E. Elkins and checked by G. F. Jordan.

R. E. Elkins
R. E. Elkins - 2/27/50
Nautical Chart Branch