

8415

8415

Diag'd. on Diag. Ch. No. 1248-2.

Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	TOPOGRAPHIC
Field No.	T-8415
Office No.	
LOCALITY	
State	FLORIDA
General locality	East Coast PALM BEACH-MARTIN COUNTIES
Locality	West of Jupiter Inlet
Quadrangle	"BCOD"
1947	
CHIEF OF PARTY Ross A. Gilmore, Chief of Field Party Lt. Comdr. George E. Morris, Jr., Chief of Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	November 5, 1948

DATA RECORD

T- 8415

Quadrangle (II): "ROOD"

Project No. (II): CS-312-A

Field Office: Stuart, Fla.

Chief of Party: Ross A. Gilmore
Lieut. Comdr.

Compilation Office: Tampa, Fla.

Chief of Party: George E. Morris, Jr.
Lieut. Comdr.

Instructions dated (II III): ^{25 May 1945} 21 Oct. 1946
 Supp. instructions 10 December 1946
 " " 16 Jan. 1946

Copy filed in ^{Office Files, Division of} Descriptive Photogrammetry
 Report No. T- (VI)

Completed survey received in office: 11 June 1948

Reported to Nautical Chart Section:

Reviewed: 13 Sept 48 Applied to chart No. Date:

Redrafting Completed:

Registered: 6 Oct 48 Published:

Compilation Scale: 1:20,300 Published Scale: 1:24,000

Scale Factor (III): 0.98522

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L.

Reference Station (III): HAWK ~~Palmetto County~~, 1934

Lat.: $26^{\circ} 56' 31.4677$ (974.9m) Long.: $80^{\circ} 13' 54.5550$ (1504.8m) Adjusted
 Unadjusted

State Plane Coordinates (VI): Florida East Zone

X = 750,271.63 Feet Y = 948,855.77 Feet

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
12141	25 Nov. 1942	11:06	1:20,300	1.5' above MLW Inshore quadrangle
12142	"	11:11	"	"
12143	"	"	"	"
12144	"	"	"	"
12115	"	10:42	"	"
11917	14 Nov. 1942	13:10	"	1.3' above MLW
* 45C-2347 thru 2354*	18 Apr 45		1:20,000	Inshore photos

Tide from (III): ~~None~~ Jupiter Inlet (near LH)

Mean Range: ~~None~~ 1.3' Spring Range: ~~None~~ 1.5'

Camera: (Kind or source) U.S. C. & G.S. 9 Lens Focal Length 8.25"

* Single lens

Field Inspection by: Leo F. Beugnet

date: 30 April 1947

Field Edit by: J.D. Weiler

date: Jan. 1948

Date of Mean High-Water Line Location (III): None - Inshore quadrangle

Projection and Grids ruled by (III) Washington Office date: 1944

" " " checked by: Washington Office date: 1944

Control plotted by: M.M. Slavney date: 27 November 1946

Control checked by: E. C. Andrews date: 27 November 1946

Radial Plot by: M.M. Slavney

date: 4 January 1947

Detailed by: R.A. Reece

date: March-July 1947

Reviewed in compilation office by: J.A. Giles

date: August 1947

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

date: August 1947

STATISTICS (III)

Land Area (Sq. Statute Miles): 66.4

Shoreline (More than 200 meters to opposite shore): None / *M/2*

Shoreline (Less than 200 meters to opposite shore): 11

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 28.0 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:

FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE T-8415

"ROOD"

PROJECT CS-312-A

30 April 1947

1. DESCRIPTION OF THE AREA

This 7½-minute quadrangle lies within Martin and Palm Beach Counties on the East Coast of Florida. It is bounded on the North by Lat. 27-00, on the South by Lat. 26-52-30, on the East by Long. 80-07-30 and on the West by Long. 80-15. The area contains 66 square statute miles of land. Elevations range from sea level to 25 feet on a few spoilbanks along the canals in the southwest portion of the quadrangle.

The principal cultural feature of this area is Florida State Road 710 which runs from East to West through the central part of the quadrangle. A small portion of the northwest fork of the Loxahatchee River extends into the quadrangle near the northeast corner, and is the only natural drainage in this area.

There are no incorporated towns within this quadrangle.

There is no cultivation of commercial value in this quadrangle, although at one time lumbering was done on a large scale as can be seen from the abandoned sawmills in the area.

The vegetation is composed mostly of scattered pine, palms, palmetto, grass, brush, and cypress in the low areas. There is some mangrove along the tidal water of the northwest fork of the Loxahatchee River.

There are many intermittent ponds in the area. Local information indicates that all of these will dry up during the dry season, including the slough area in the south-central part of the quadrangle.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection was done in accordance with instructions dated 21 October 1946 and 10 December 1946; a large portion of the inspection was done during the planimetric inspection in 1944. Roads and vegetation were reclassified on new prints; New houses and buildings were located on new nine-lens contour prints. Field inspection was done by Leo F. Beugnet, Engineering Aid.

3. INTERPRETATION OF PHOTOGRAPHS

In most cases interpretation of the nine-lens photographs was clear. The single-lens photographs along the western edge of the quadrangle were very poor; due to this condition a portion of the contouring along the western edge of the quadrangle was done on a strip of an old planimetric photograph, No. 12141.

The color tone varies from almost black in the deeper intermittent ponds and those of muck bottoms to white in the sandy areas. Intermittent ponds with grass have a much lighter gray tone than those with open water. Heavy pine appears to have a dark, steel tone, grass a light gray tone, brush and palmetto a gray tone with mottled texture.

There are several dark gray areas on the photographs, which were probably areas burned over shortly before the photographs were taken.

4. HORIZONTAL CONTROL

All horizontal control was recovered during the planimetric inspection in 1944.

5. VERTICAL CONTROL

There are 4 U.S.C. & G.S. bench marks in this quadrangle. All of these were recovered and used to establish additional vertical control.

Fly levels were run with a wye level along the principal roads to give a distributed base for planetable contouring. Temporary bench marks were established at identifiable picture points at about $\frac{1}{2}$ -mile intervals and marked either with bottle caps or stakes. All level lines were closed with the required accuracy and the records carefully checked. All level points are shown on the contour prints with a cross, labelled with the quadrangle designation letters "RD", and numbered consecutively in blue ink with elevations shown to the nearest tenth.

6. CONTOURS AND DRAINAGE

The contouring was done in accordance with the instructions for this project, at an interval of five feet, on nine-lens photographs 12143A, 12142A, and a strip of 12141, and on single-lens photographs C-2347, C-2348, and C-2349, using standard planetable methods.

In the southwest portion of this quadrangle there is a series of ditches with spoil banks that required a great portion of the time spent on this quadrangle.

There are two active borrow pits in the central part of the quadrangle, on the north side of Florida State Road 710, which should be checked by the field edit party.

All planetable traverses of 3 setups or more were tied back to level points with a closure of 0.7 ft. or less; all lines with closures greater than 0.3 ft. were adjusted before inking elevations on the photograph.

7. MEAN HIGH-WATER LINE

The 1944 inspection of the mean high-water line was checked from a boat run as close to the shore as possible. The apparent shoreline is at the edge of the mangrove. Actual MEWL is delineated on the photographs where there is fast land. Additions and corrections were made with blue ink to differentiate between the 1944 and the 1947 shoreline inspection. Shoreline notes were submitted for this quadrangle with data for quadrangle T-8414.

8. LOW-WATER LINE

No attempt was made to show the low-water line in this area.

9. WHARVES AND SHORELINE STRUCTURES

Wharves and shoreline structures were noted on the shoreline photograph.

10. DETAILS OFFSHORE FROM HIGH-WATER LINE

There are no offshore details in this quadrangle.

11. LANDMARKS AND AIDS TO NAVIGATION

There are no landmarks nor aids to navigation in this quadrangle.

12. HYDROGRAPHIC CONTROL

Not applicable to this quadrangle.

13. LANDING FIELDS AND AERONAUTICAL AIDS

No landing fields nor aeronautical aids fall within the limits of this quadrangle.

14. ROAD CLASSIFICATION

All roads were classified in accordance with instructions dated 30 June 1945.

15. BRIDGES

There are no bridges over navigable waters in this area.

16. BUILDINGS AND STRUCTURES

The field inspection of 1944 was verified in 1947. All structures were shown on the new prints of the nine-lens photographs. All buildings to be shown were circled in red and all deletions in green, on photographs 12142A and 12143A.

17. BOUNDARY MONUMENTS AND LINES.

There are no incorporated towns within the limits of this quadrangle. The only boundary line in the quadrangle is the Palm Beach-Martin County Line, which has been delineated on the contour-section of photograph 12141 and on photograph 12142. Legal descriptions of this line will be submitted in a Special Report on Boundaries at the completion of this project.

*In File Section,
Div. of Photogrammetry.*

A thorough investigation and search has been made for all section corners in this quadrangle; this should be considered when requesting further field work by the field edit party. Where section corners were not found a search was made for quarter-section corners.

In the southwest portion of the quadrangle there is a series of canals and ditches. It is believed that these canals were dug on or very close to the section lines and that the section corners have either been destroyed or covered by spoil. A very intensive search was made for corners in this area but none were recovered. No information of value could be obtained concerning the location of these canals with respect to the section lines.

23 34

Attention is called to Section Corner 4 3, T40,41S-R42E. This corner was not recovered but local information was that it should be at the intersection of the roads. It was probably destroyed when the road was dragged.

18. GEOGRAPHIC NAMES

814 ✓

See Special Report on Geographic Names, Project CS-312-A, by Lowell I. Bass, Engineering Aid, dated July-August 1944.

*On file in Geo-
graphic Names
Section, Div. of
Nautical Charts*

Leo F. Beugnet.

Leo F. Beugnet
Engineering Aid
(Topography and Field Inspection)

Charles H. Bishop

Charles H. Bishop
Photogrammetric Aid
(Shoreline Inspection)

APPROVED AND FORWARDED:

Ross A. Gilmore
Ross A. Gilmore 6-16-47
Chief of Party

COMPILATION REPORT
QUADRANGLE T-8415
PROJECT CS-312-A

26 AND 27 MAIN RADIAL PLOT:

A special report was submitted to the Washington Office by M.M. Slavney, Photogrammetric Engineer on 22 May, 1947. It was incorporated in the compilation report accompanying quadrangle T-8413.

28 DELINEATION:

The map manuscript has been delineated according to the latest instructions for this project. The nine lens photographs used (12141, 12142 and 12143) were clear and of fair scale. The single lens photographs, taken of the western edge of the quadrangle, were poor. Clouds and shadows covered most of the area on the single lens photographs. The compiler used the single lens photographs as little as was absolutely necessary and the nine lens photographs as much as he possibly could. It was difficult, consequently, to get the detail delineated in its true position and scale along the western limits of the quadrangle. The numerous detail points pricked along the western edge of the area were distinguishable for the most part on two photographs only, hence, only two radial cuts were obtainable. It is believed, however, that the delineation will meet the required standards of accuracy.

*Instr. filed in
Div. Photogrammetry
Office files.*

Field inspection was well done. The contouring and recovery of section corners was done thoroughly. Several contours do not match up with adjoining quadrangles, but these instances are noted on the discrepancy overlay along with several other minor details in question.

29 SUPPLEMENTAL DATA:

None

30 - 37

Inapplicable

38. SECTION CORNERS:

All existing section corners within the limits of this quadrangle have been recovered in the field and plotted on the map manuscript. These corners are being submitted on Form No. 524. A "Public Land Lines" report is being submitted by William A. Rasure, Photogrammetric Engineer, along with the Compilation Report.

*Filed in Div. Photogrammetry
General Files.*

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None are available for comparison.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with chart number 1247 bearing a print date of 24 November 1945. No change in shoreline was discernable.

Respectfully submitted,

Richard A. Reece
Richard A. Reece
Engineering Draftsman

Approved and Forwarded:

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

PROJECT GS-312 A
QUADRANGLE T-8415
"ROOD"

PUBLIC LAND LINES:

Section lines have been shown on the front of the map manuscript in yellow pencil. They will be inked in yellow acetate ink after verification by field edit.

The four (4) General Land Office plats covering this quadrangle are of surveys dated around 1850 and are very inaccurate. Due to the scarcity of cultural detail and recovered corners, they had to be used to some extent.

All of the corners recovered by the field inspector are assumed to be correct since the General Land Office plats are not of sufficient accuracy to prove them otherwise.

The construction of the lines is very doubtful especially in the western half of the quadrangle (Range 41 East); however, it is not intended for the field editor to make an extensive search for any other corners. (Reference paragraph 17 of field inspection report) It is suggested that the lines merely be verified as constructed. An ozalid print of the map manuscript with sections lines shown in black india ink is being furnished for that purpose.

Respectfully submitted,

William A. Rasure
William A. Rasure
Photogrammetric Engineer

Approved and Forwarded:

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

FIELD EDIT REPORT

QUADRANGLE T-8415

"ROOD"

PROJECT GS-312-A

The field edit of this quadrangle was completed during January 1948 by John D. Weiler, Photogrammetrist.

46. METHODS

In field editing the map manuscript, all roads were traversed by truck. Because of the plethora of roads in the area, walking was necessary in only a few instances. All data added to the map manuscript were either plotted from topographic features or cut in by planstable methods.

47. ADEQUACY OF THE MAP MANUSCRIPT

The map manuscript was not too well compiled. The shoreline along the Northwest Fork of the Loxahatchee River was very poorly done, and a large amount of other detail was overlooked.

A letter dated 2 January 1948 from the Chief, Division of Photogrammetry to the Tampa Photogrammetric Office covered the method to be employed in classifying the Loxahatchee Slough and low ground areas of the quadrangle. You are referred to this letter and the letter of reply attached to the field edit report of quadrangle T-8416. However, changes on the map manuscript, relative to this feature, should not be made until explicit instructions are received from the Washington Office. In general, limits of the area to be classified as low ground, intermittently flooded, are shown in green pencil on photographs No. 12142 and 12143C.

The quadrangle name "ROOD" should be "ROOD CITY". It was, at one time, a settlement complete with post office and hotel. Now, however, the location is known to only the older settlers of the area. The location has been shown on the field edit sheet.

The corporate limits of Jupiter, Florida and part of the county line (Martin-Palm Beach) have been added to the field edit sheet.

Since Geographic Names were not shown on the manuscript at the time of field edit, no special check was possible. A few names however, that were found during the course of field edit have been shown.

All roads in the quadrangle were reclassified according to Photogrammetry Instructions No.10 and Amendment dated 24 October 1947.

See Field Edit Report of Quadrangle T-8412 relative to the State Park created from Camp Murphy.

48. VERTICAL ACCURACY TEST

No vertical accuracy tests were specified for this ~~project~~^{quadrangle}. The contours appear to have good expression.

49. PUBLIC LAND LINES

No additional section corners were recovered. The field inspector did a thorough job of recovering existing corners and section lines appear to be in good agreement with cultural lines. (However a few section lines will be changed in T-8416 and the match should be re-checked.)

The map manuscript was reviewed by Mr. Vince Nelson, biologist and naturalist; who has operated the Trappers Zoo for eighteen years. Highly familiar with the area, he could find no errors.

Submitted by:

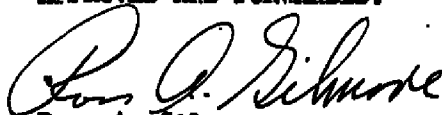


John D. Weiler
Photogrammetrist

SUPERVISED:

William A. Rasure.
William A. Rasure
Photogrammetric Engineer

APPROVED AND FORWARDED:



Ross A. Gilmore
Chief of Party

GEOGRAPHIC NAMES

Survey No. **T-8415**

ROOD, Fla., 7¹/₈' quad.
Name on Survey

	A	B	C	D	E	F	G	H	K
Florida									USGB 1
Palm Beach County									2
Martin County									3
Jupiter	(small section of corporate limits here)								4
State No. 710									5
Rood	this is the name on older maps: if Rood City, reported by Field Edit, is to be used as a title, it would have to be arranged with U.S.G.S. Rood was the name of the former P.O.								6
									7
									8
Northwest Fork Loxhatchee River									9
North Fork Loxhatchee River	this name, shown on Field Edit sheet, appears to be wrongly placed. The main North Fork is more to the eastward: this could be only a northerly fork of the Northwest Fork								10
									11
									12
Jupiter State Park									13
K. Cohen Creek									14
Cypress Creek									15
Trappers Zoo									16
Church of God									17
Mt. Carmel Church									18
Jupiter Elementary School									19
									20
									21
	Names underlined in red are approved.								22
	9/7/48 L. Heck								23
									24
									25
									26
									27

September 13, 1948

Division of Photogrammetry
Review Report of
Topographic Map Manuscript T-8415

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

28. Detailing:

The "Low Ground" classification has been eliminated from the sheet. The part of Loxahatchee Slough that falls on this sheet has been classified as intermittent pond. The limits of the slough were changed somewhat during review. Refer to correspondence in descriptive report for T-8416 for discussion of the classification of Loxahatchee Slough.

42. Comparisons with Previous Surveys:

In common areas, this survey supersedes:

T-1640 (1883) 1:20,000
T-4457a (1930) 1:20,000
T-4458a (1930) 1:20,000

48. Accuracy:

This map complies with national map accuracy standards.

49. Overlay:

An overlay has been prepared showing control, road classification, etc., and the new format for quadrangles. This map will be edited and published by the Geological Survey.

50. Application to Nautical Charts:

This survey has not been applied to nautical charts as of the date of this review.

Reviewed by:

Jack L. Rihn
Jack L. Rihn, Chartographer
13 September 1948

Approved by:

S. V. Griffith
S. V. Griffith *K.M.*
Chief, Review Section

Arthur
Chief, Nautical Chart Branch
Division of Charts

E. J. Jones
Chief, Div. of Photogrammetry
Acting

C. J. Green
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8415

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12-20-49	846	<i>C. Leich</i>	<i>Field Edit. Fully examined as to shorelines Before After Verification and Review and Top. No corrections made.</i>
			Before After Verification and Review
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M-2168-1

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.