**U. S. COAST AND GEODETIC SURVEY**
**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
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<tbody>
<tr>
<td>Field No.</td>
<td>T-8803</td>
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<td>Office No.</td>
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**LOCALITY**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>General locality</td>
<td>Dade County</td>
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<tr>
<td>Locality</td>
<td>Glades</td>
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</table>

**1947**

**CHIEF OF PARTY**

| Lieut. Comdr. George E. Morris, Jr. |

**LIBRARY & ARCHIVES**

<table>
<thead>
<tr>
<th>DATE</th>
<th>June 3, 1948</th>
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RECORD SHEET

GENERAL LOCALITY...Florida East Coast

LOCALITY...Homestead

6 Jan. 1947

PHOTOS ORDERED. REC'D 4 Feb. 1947

PROJECTION ORDERED. REC'D 16 Dec. 1946

CONTROL:
COMPUTED R.J. Pate VERIFIED R. Doggett

PLOTTED R.J. Pate VERIFIED M.M. Slavney

PHOTO PREPARATION:
CONTROL R.J. Pate - M.M. Slavney

AZIMUTHS R.J. Pate - M.M. Slavney

PASS POINTS R.J. Pate

TEMPLETS R.J. Pate VERIFIED M.M. Slavney

RADIAL PLOT:
PLOTTED BY M.M. Slavney DATE April 24, 1947

VERIFIED M.M. Slavney DATE April 24, 1947

COMPILATION:
DETAIL POINTS R.A. Reese DATE May 1947

DETAIL BY R.A. Reese DATE June 1947

VERIFIED BY J.A. Giles DATE June 1947

DATE OF PHOTOS April 11, 1946

TIME OF PHOTOS 10:06 a.m.

STAGE OF TIDE Negligible

COMPARISON WITH PREVIOUS SURVEYS: TOPO., HYDRO., AND CHARTS:

A comparison was made with U.S. C. & G.S. Nautical Charts No. 849 bearing
a print date of 27 October 1945 and No. 1249 bearing a print date of 26 Jan-
uary 1946. Very few changes were noted in the small area that could be
compared.

REMARKS

FORWARDED TO DATE
DATA RECORD

T- 8803

Quadrangle (II): Glades, Fla.  Project No. (II): Ph-10(46)

Field Office: Stuart, Fla.  Chief of Party: Ross A. Gilmore
Lieut. Comdr.

Lieut. Comdr.

Instructions dated (II III): 21 Oct. 1946  Copy filed in Descriptive Office Files
Report No.- T-..  (VI)

Completed survey received in office: 1-26-48

Reported to Nautical Chart Section:

Reviewed: 5-7-48  Partially  Applied to chart No. 849  Date: 10/27/47
1249

Redrafting Completed:

Registered: 5-14-48  Published:

Compilation Scale: 1:20,000  Published Scale:

Scale Factor (III): None

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

Reference Station (III): QUARRY 1935

Lat.: 25° 20' 27.588"  Long.: 80° 24' 47.324"
(848.9m)  (1323.4m)

Florida

State Plane Coordinates (VI): East Zone

X = 693,820.75 Feet  Y = 366,591.63 Feet

Military Grid Zone (VI)
PHOTOGRAPHS (III)

<table>
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<tr>
<th>Number</th>
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<td>4/11/46</td>
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<td>16333-36</td>
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<td>16343-45</td>
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Mayport - Reference Station

Tide from (III): Barnes Sound

Mean Range: 0.2
Spring Range:

Camera: (Kind or source) U.S. C. & G.S. 9-Lens, 8½ "focal length

Field Inspection by: E.H. Taylor
                   C.H. Bishop
                   date: April, 1947

Field Edit by: J. D. Weiler
               date: Nov 1947

Date of Mean High-Water Line Location (III): April 11, 1947

Projection and Grids ruled by (III) Washington Office

" checked by: Washington Office

Control plotted by: R.J. Pate
Control checked by: R. Dossett

Radial Plot by: M.M. Slavney

Detailed by: R.A. Reese

Reviewed in compilation office by: J.A. Giles

Map Manuscript

Elevations on checked by: J.A. Giles

date: June, 1947
STATISTICS (III)

Land Area (Sq. Statute Miles): 57.5


Shoreline (Less than 200 meters to opposite shore): 17.0

Number of Recoverable Topographic Stations established: 0

Number of Temporary Hydrographic Stations located by radial plot: 0

Leveling (to control contours) - miles: 12.1

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:
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<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>N.A. 1927</td>
<td>25° 20' 27.588&quot;</td>
<td>80 24 47.324&quot;</td>
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<td>1323.4 (354.5)</td>
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<td>&quot; &quot; &quot; &quot;</td>
<td>25 17 15.214</td>
<td>80 23 33.781</td>
<td>468.1 (1378.1)</td>
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<td>945.1 (735.5)</td>
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<td>AND</td>
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<td>&quot; &quot; &quot; &quot;</td>
<td>25 15 28.230</td>
<td>80 25 20.549</td>
<td>868.6 (977.6)</td>
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<td>575.0 (1104.0)</td>
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<td>* 80</td>
<td>&quot; &quot; &quot; 1930</td>
<td>&quot; &quot; &quot; &quot;</td>
<td>25 16 07.370</td>
<td>80 24 00.348</td>
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<td>9.7 (1669.2)</td>
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<td>* GIADIES W.T.</td>
<td>&quot; &quot; &quot; 1934</td>
<td>&quot; &quot; &quot; &quot;</td>
<td>25 16 00.823</td>
<td>80 26 25.740</td>
<td>25.3 (1820.9)</td>
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<td>720.2 (958.6)</td>
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Note: Stations indicated with an * have been reported as lost or destroyed and do not appear on the map manuscript.
FIELD INSPECTION REPORT
TO ACCOMPANY QUADRANGLE T-8803
GLADES
PROJECT Ph-10(46)
30 April 1947

1 - DESCRIPTION OF THE AREA

This standard, 7 1/2 minute quadrangle (N2515-W8022.5/7,5) lies mainly in the southern part of Dade County, Florida, south of the city of Homestead. The mainland in the quadrangle is in Dade County, while the few small keys which are included fall in Monroe County.

The entire land area is extremely low, varying in elevation from sea level to approximately 3 1/2 feet above mean sea level. Water stands over much of the area except in the driest season of the year.

Vegetation consists of mangrove along the shoreline with the remainder of the area being gladeland with mangrove sloughs, changing to scattered mangrove to grass with brush hammocks as the terrain rises toward the interior.

There are two highways traversing this area: U.S. Highway No. 1 (Overseas Highway) and one other road east of U.S. No. 1 which at one time was the Overseas Highway but is now just a road to Barnes Sound since its bridge across to Key Largo has been destroyed.

2 - COMPLETENESS OF FIELD INSPECTION

Field inspection has been completed according to instructions for the project. Filed in Div. of Photogrammetry, General Files.

The field inspection is believed complete, with sufficient notes for correct compilation. Field inspection notes are on photographs Nos. 16326(No.2), 16327(No.1), 16328(No.1), 16334(No.1), 16335(No.1) and 16336(No.2).

3 - INTERPRETATION OF PHOTOGRAPHS

No difficulty was encountered in the interpretation of the photographs.
The dense mangrove along the shoreline, sloughs, and low spots, has its typical, very dark, dense tone. The very light background tone in the area near the shoreline represents mud flats, with scattered low mangrove bushes and prominent dark clumps of higher, dense mangrove. As the terrain rises very gradually towards the interior, the background tone changes to medium-light gray to medium-gray, indicating zones of very scattered mangrove bushes with rather sparse grass and heavier stands of grass with no mangrove, respectively. The dark, densely mottled spots inland from the mangrove zone are low hammocks of very dense brush.

4 - HORIZONTAL CONTROL

The horizontal control within this quadrangle consists of U.S.G.S. triangulation only. All stations were searched for, and all recovered were identified for photograph control.

Control identification is on photographs Nos. 16334 (No. 1) and 16335 (No. 2).

5 - VERTICAL CONTROL

No permanent vertical control was recovered in this quadrangle; the bench marks of the first-order U.S.G.S. level line along the old Florida East Coast Railroad were all destroyed when the present highway was built on the railroad fill.

Fourth-order levels, to control contouring, were run along all roads in the quadrangle and adjusted prior to inking elevations on the photographs. Level notes are recorded in Vol. 1, Wye levels, Ph-10(48).

6 - CONTOURS AND DRAINAGE

The only contours in this quadrangle are along the road fills. The elevation of the natural terrain at the northern limits of the quadrangle was found, in the course of contouring in Quadrangle 8817, to be about 2 to 2.5 feet. The slope of the gladesland is toward the shoreline, and since inspection showed that there were no high spots in the gladesland there is no natural 5-foot contour. Rod shots and angle shots to identifiable details, using scaled distances from the photographs, were taken at intervals from the roads, to prove the absence of contours. Since there is no contour at or near the west limits of the quadrangle, the planetable traverse along the west project limits was omitted on authority of letter dated 18 March 1947, Reference No. 75-1d, signed J. H. Hawley, Acting Director.
The very low elevation of the glades area was further verified by information from the Soil Conservation Service. While they did not run levels through the area, their water-table investigation proved the terrain to be as previously noted.

7 - MEAN HIGH-WATER LINE

The shoreline was inspected from a boat run as close as possible to the shore. Most of the shoreline is indefinite, the MHWL being in the mangroves. This is labeled "apparent shoreline". Where there is a definite MHWL, it is labeled "actual shoreline".

8 - LOW-WATER LINE

Since the shoreline is predominately "apparent", the high water line and low water line are both in the mangroves. No attempt was made to show a low water line.

9 - WHARVES AND SHORELINE STRUCTURES

The only wharves or shoreline structures in the area are on the south side of the causeway of the Old Dixie Highway between Barnes and Card Sounds. These were delineated on the photographs.

10 - DETAILS OFFSHORE FROM HIGH-WATER LINE

The only offshore details are detached clumps of mangroves and small shoals. These were noted on the photographs.

11 - LANDMARKS AND AIDS TO NAVIGATION

There are no landmarks or aids to navigation in the quadrangle.

12 - HYDROGRAPHIC CONTROL

Not required for this project.

13 - LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields nor aeronautical aids within the quadrangle.

14 - ROAD CLASSIFICATION

All roads in this area have been classified according to instructions dated 30 June 1945.
15 - BRIDGES

There are no bridges over navigable waterways in this area.

16 - BUILDINGS AND STRUCTURES

The only buildings within the quadrangle are along the causeway of the south end of the Old Dixie Highway; these have been circled in red on photograph No. 16334 (No. 1).

17 - BOUNDARY MONUMENTS AND LINES

The mainland of this quadrangle lies in Election Precinct No. 92. Commissioners District 4, Dade County; the water area and small keys are in precinct No. 7, District 5, Monroe County. In addition to the Dade-Monroe County Line, the boundary of the newly established but as yet undeveloped Everglades National Park falls partly within this quadrangle. For descriptions of these boundary lines, refer to the Special Report on Boundaries Project Ph-10(46). filed in Div. of Photogrammetry General Files.

18 - GEOGRAPHIC NAMES

Approved list filed in Div of Charts, Geographic Names Section. See special Report on Geographic Names, Project Ph-10(46).

19 - TOPOGRAPHIC STATIONS

Three topographic stations were established in the area, two along the shoreline and one inland (Quarry Azimuth Mark).

20 - SYMBOLS

Symbols may be found on the back of photograph No. 16334.

21 - PUBLIC LAND LINES

One locally established section corner recovered. See Review Report.

No section corners were recovered within the quadrangle. Information from the local engineers contacted indicates that it has been their experience that there are no recoverable corners in this gladeland area.

The Bissoyne Engineering Co. of Miami was forced, after thorough investigation, to run a traverse from Homestead to the shoreline in order to determine the section in which a test well(s) was located. They plotted their traverse and tied it to the shoreline taken from U.S.G. & E.S. planimetric sheets, then matched the shoreline from the G.L.O. township plats as well as possible to the present
shoreline; in that manner, the section lines as constructed from the traverse could be compared to the original section lines on the plats. It was found that the section layout, as shown on "Map of Survey--Showing Location of Test Well, Sec. 29-Twp. 59S-Rge. 39E, Dade County, Florida--for Republic Oil Co." (a print of which is submitted), agreed quite well with the original plats. This layout was therefore accepted by the Biscayne Engineering Co., and the legal description of the oil well location determined therefrom.

Quarter corners of the quarter section in which the test well was located were set during the survey previously described. However, the test well has been removed and the site abandoned, and a search for the corners was unsuccessful; the area is covered by dense, high marsh grass and mangrove swamp, and a traverse would be required to locate the corners. However, considering the manner in which these corners were established, it is believed that the ties shown on the map previously mentioned are equivalent in accuracy and authority to a recovery of the corners.

While this work of the Biscayne Engineering Co. leaves much to be desired in the way of coverage for land lines in the quadrangle, it is the only data discovered and gives some foundation for the reconstruction of section lines.

See Review Report T 806

James E. Hundley, Photo. Aid
Edward T. Taylor, Eng. Aid
Charles H. Bishop, Photo. Aid

Approved and Forwarded:

Ross A. Gilmore, Chief of Party
26 AND 27 CONTROL AND RADIAL PLOT:

A special report prepared by M.M. Slavney, Photogrammetric Engineer, was submitted to the Washington Office separately on 29 May, 1947. Filed in Div of Photogrammetry - General Files

28. DELINEATION:

This map manuscript has been delineated according to the latest instructions for this project. Woodland areas have been outlined and symbolized according to instructions. Brush hammocks have been labeled "B", and mangrove sloughs have been labeled "Mg".

All but photograph No. 16334 of the 9-lens photographs used in delineating this quadrangle were of good scale and satisfactory for the delineation of the map manuscript.

29. SUPPLEMENTAL DATA:

A print of a section layout, "Map of Survey - showing Location of Test Well Section 29 Township 59 South, Range 39 East Dade County, Florida for Republic Oil Company," which agreed quite well with the original plates, was furnished by the Biscayne Engineering Company of Miami (see Field Inspector's note under "Public Land Lines").

The Official Map of Dade County was used as a guide in delineating the Dade-Monroe County line.

30. MEAN HIGH WATER LINE:

The mean high water line has been shown according to field inspection notes.

31. LOW WATER AND SHOAL LINES:

Shown according to field recovery notes.

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

See field inspection report.

33. WHARVES AND SHORELINE STRUCTURES:

See field inspection report.
24. LANDMARKS AND AIDS TO NAVIGATION.

There are none.

35. HYDROGRAPHIC CONTROL:

None required.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

There are none in this quadrangle.

37. BRIDGES:

None

38. SECTION CORNERS:

A special report on Public Land Lines is being submitted by William A. Rasure, Photogrammetric Engineer and incorporated with this report.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

No topographic quadrangle of this area was available for a comparison.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with U.S. Coast and Geodetic Survey Nautical Charts Number 849 and 1249 bearing a print date of 27 October 1945 and 26 January, 1946 respectively. Very few changes were noted in the small area that could be compared.

Respectfully submitted,

Richard A. Reece
Engineering Draftsman

Approved and Forwarded:

George E. Morris, Jr.
Chief of Party.
38 PUBLIC LAND LINES:

Only one section corner was recovered within the limits of this quadrangle; it being located in the extreme northwestern part.

No General Land Office Plats were available.

All data and information furnished by the field party indicate that for the entire project, except for that portion covered by the Florida Geodetic Survey, public land line surveys have been accomplished by local engineering firms. Some of these surveys are in disagreement (reference, Field Inspection Report, Quadrangle No. T-8804, paragraph 21).

No attempt will be made to establish section lines on this or the remaining quadrangles in this project not covered by the Florida Geodetic Survey, unless further instructed by the Washington Office to do so. Such procedure has been decided upon because the local surveys are most likely unrecognized by the General Land Office and cover only a very minute portion of the project.

See Review Report T-8806

Approved and Forwarded:

William A. Rasure
Photogrammetric Engineer

George E. Morris, Jr.
Chief of Party.
FIELD EDIT REPORT
QUADRANGLE T-8803
"GLADES"
PROJECT PH-10 (46)

Field edit of this quadrangle was made by, John D. Weiler Photogrammetrist during November, 1947.

46. METHODS

In field editing the map manuscript all roads were traversed by truck. The shoreline area was edited by a small launch, keeping as close to the shore as possible. All data added to the map manuscript were either plotted from topographic features or cut in by planetable methods.

47. ADEQUACY OF THE MAP MANUSCRIPT

The map manuscript was adequate and correct except for a few minor discrepancies.

All roads were reclassified according to Photogrammetry Instructions No.10 and amendment dated 24 October 1947.

The line between gladeland and scattered mangrove was checked in the field and appropriate notes shown on the field edit sheet.

A few areas of cultivated land have been shown in the northeast corner of the quadrangle for transfer to the map manuscript.

The Dade Monroe County line is unsurveyed along Barnes Sound, and the engineers for both counties professed to know little about its actual location. The notes made on the field edit sheet were determined by coordinating The Dade County Map with local inquiry. Although it is highly inadequate it seems to be the best interpretation that can be obtained.

For information regarding the status of The Everglades National Park see field edit report for quadrangle T-8808.

48. VERTICAL ACCURACY TEST

No vertical accuracy tests were specified for Project Ph-10 (46).

49. PUBLIC LAND LINES

Because of inadequate information, it is recommended that section lines be omitted from this quadrangle. See Special Report by William A. Rasure. See Review Report T-804.
Since Earl Jackson, Engineering Aid assisting in field edit was highly familiar with the area within the quadrangle, it was not reviewed by any other local resident.

John D. Weiler
Photogrammetrist

Supervised:

William A. Rasure
Photogrammetric Engineer

Approved and Forwarded

Ross A. Gilmore
Chief of party
Division of Photogrammetry
Review Report of
Topographic Map Manuscript T-8803

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

28. Detailing.—Many areas of mangrove and brush that were too small to be symbolized, were removed from the map manuscript.

The symbolization of spot elevations was changed to conform with paragraph 69 of Photogrammetric Instructions No. 17.

A 5 foot contour around a spoil bank was added at latitude 25°22', longitude 80°25'.

30. Mean-High Water Line.—Several small mangrove islands were added to the map manuscript in the vicinity of Middle Key.

31. Low-Water and Shoal Lines.—Areas in Barnes Sound and Manatee Bay that were labelled "awash at MHW" were enclosed with an approximate low water line.

37. Recoverable Topographic Stations.—The name of the topographic station, "Quarry Az. Mk", was changed to "Quarry No. 3, 1935", on the map manuscript and the Form 524 to conform with the name stamped on the station marker.

The recovered section corner in T-58S, R 36 E falls in the area that is unsurveyed by the General Land Office. This corner was evidently established by a local survey. It has been changed to topographic station, "Section Corner, 1917", on the map manuscript and the Form 524.

38. Section Lines.—See Review Report for T-8806.

40. Geographic Names.—Names were added to the map manuscript from the approved list of names submitted by the Geographic Names Section.

44. Comparison with Existing Topographic Surveys.—

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<th>T-</th>
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<tr>
<td>5538</td>
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These surveys are superseded in common area and detail by T-8803.

45. **Comparison with Nautical Charts.**

<table>
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<th>Scale</th>
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<td>1:40,000</td>
<td>1939</td>
<td>1948</td>
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<tr>
<td>1249</td>
<td>1:80,000</td>
<td>1937</td>
<td>1947</td>
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</table>

No major discrepancies were noted. The map manuscript has been partially applied to the nautical charts.

47. **Vertical Accuracy Test.**—See Field Edit Report.

48. **Overlays.**—An overlay was prepared indicating the marginal data, road classification and route numbers, road destinations and distances, boundaries, selected spot elevations and triangulation stations that are to be shown by the smooth draftsman.

Reviewed by:

**Charles Theurer**  
5-7-48

APPROVED BY:

**S.H. Griffith**  
Chief, Review Section  
Div. of Photogrammetry

**C.T. Adams**  
Chief, Div. of Photogrammetry

**H. Letendre**  
Chief, Nautical Chart Br.  
Div. of Charts

**C.K. Aden**  
Chief, Div. of Coastal Surveys
<table>
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<tr>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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<tr>
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</tbody>
</table>

"The original title assigned to this sheet should be changed, if it has not already been done. The former railway stop of Glades no longer exists in any way. The name report for this area recommended GLADES CANAL as title for this sheet."

Florida ✔
Dade County ✔
Monroe County

U.S. No. 1

State No. 905 (former US. No. 1; latest state official road map applies this number to this road)

Barnes Sound
Main Key
Short Key
Manatee Bay

Flat Point

Glades Canal

Everglades National Park
Middle Key
Narrow Point

Names underlined in red are approved. 5/5/48 L. Hook.
<table>
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<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>Richardson</td>
<td>Before After Verification and Review</td>
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<tr>
<td>10/1/47</td>
<td>849</td>
<td>John M. Alinder</td>
<td>Examined for critical changes only</td>
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<td>10/1/47</td>
<td>849</td>
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<td>849</td>
<td>John M. Alinder</td>
<td>Examined for critical changes only</td>
</tr>
<tr>
<td>10/17/47</td>
<td>1350</td>
<td>E. Bodnar</td>
<td>Superseded by TP 0044B TP 0044D</td>
</tr>
<tr>
<td>10/17/47</td>
<td>1350</td>
<td>E. Bodnar</td>
<td>Before After Verification and Review</td>
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</tbody>
</table>

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.