

5794

Diag'd on Diag. Ch. No. 1259

Form 504

Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic

Hydrographic

Sheet No. T-5794

T5794

State

FLORIDA

LOCALITY

Gulf West Coast

Vicinity of Gulf Hammock

and Vicinity

Photographs taken Dec. 7, 1939

1941

CHIEF OF PARTY

Lieut. Kenneth G. Crosby

U. S. GOVERNMENT PRINTING OFFICE 102221

4920

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO. T5794

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

SHEET

Field No. T-5794

REGISTER NO.

State Florida

General locality Gulf West Coast

Locality Immediate vicinity of Gulf Hammock and Vicinity
Photos.

Scale 1:20,000 Date of survey December 4, 1939

Party
~~Vessel~~ Air Photographic Party No. 1

Chief of party Lieut. Kenneth G. Crosby

Field Inspected

Surveyed by Lieut. E. L. Jones and H. A. Duffy

Inked by Rudolph Dossett

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated April 3, 1940

Remarks:

T5794

SHEET NO. T- 5794

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
3827	December 4, 1939	10:55 A.M.	No shoreline on this sheet.
3830	December 4, 1939	11:03	
3831	December 4, 1939	11:04	
3862	December 4, 1939	12:18	
3877	December 4, 1939	12:51	

Field Inspection in Sept. 1940 and Mar. 1941

Tide from predicted tables for: No shoreline on this sheet.

Camera: U.S. Coast and Geodetic Survey Kino-Lens (focal length 8 $\frac{1}{2}$ inches.)
Negatives on file at Washington Office.

SCALE

Mean scale of Photographs..... 1:20,000 \div 0.9995
Scale of Survey Sheet..... 1:20,000

STATISTICS

Area (land).....	65.9	Square statute miles
Shoreline (more than 200 m. from opposite shore).....	None	Statute miles
Shoreline (Creeks).....	37.5	Statute miles
Roads, streets, trails, and railroads.....	27.9	Statute miles

REFERENCE STATION

Station: MAGNOLIA, 1933

Latitude: 29° 13' 49.144" ✓
(1513.0 m.) ✓

Date: N.A. 1927

Longitude: 82° 45' 45.636" ✓
(123255 m.) ✓

(Adjusted)

Date of Survey: All details are of the date of the photographs, Dec. 4, 1939, except as noted on p. 1 of this report.

West Zone

X coordinate:

267,367.46

Y coordinate:

1,780,686.92

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control Surveys.....			
Planetable Surveys.....			
Total			

FIELD INVESTIGATION

Preparation of Photographs.....	ELJ - WHS	JULY & DEC.	8
Field Work.....	ELJ-HAD-KWS	May & Sept.	25
Inking Notes.....	ELJ-HAD	September	1
Coast Pilot Notes.....			
Geographic Name Report.....	ELJ - HAD	Aug. & Dec.	16
Landmarks for Charts.....			
Description Cards.....	ELJ-HAD-KWS	June & Sept.	33
Recovery Notes.....		1940; Jan. 1941	
Total			83

MAIN RADIAL PLOT

Scale Plot.....	KGC	Nov. 5 & 6	2
Projection on Base Sheet.....			
Projection on Survey Sheet.....			
Control Plotted.....	KGC	December 2	4
Control Checked.....	ELJ-RD	Dec. '40; Feb '41	3
Control Trans. to Base Sheet.....	ELJ	December 4	1
Transfer Checked.....	(KGC)		
Control plotted on Photographs.....	JHSB	November 4	3
Control checked on Photographs.....	JAG-KWS-KGC	Nov. & Dec.	7
Spire. & Topo. Stations picked.....	KGC-RD	November	20
Radial points picked.....	KGC-KWS	November	8
Adjacent centers picked.....	KGC-RD	Oct. & Nov.	30
Templates.....	JAG	December 3	5
Radial Plot.....	KGC-WHS-JHSB	December 4	6
Radial Points transferred.....	WHS	December 7	2
Transfer checked.....	JHSB	December 7	2
S & T Stations scaled & checked....	RD-WHS	March 12, 1941	4
Additional Radial points.....			
Total			97

DETAILING

Rough Draft.....	RD	Dec. 13-Mar. 12	111
Smooth Draft.....			
Total			111

COMPILATION

Name Drawing (Geographic).....	RD	Jan. 4, 1941	4
Descriptive Report.....	RD-KGC	Jan. & March	9
Field Review.....	KGC	Feb. & March	14
Total			27

Total Time spent on Sheets..... 318 hours.

DESCRIPTIVE REPORT
To Accompany
SHEET NO. T--5794

GENERAL

This sheet was compiled in accordance with "Instructions for Drafting Air Photographic Surveys, Project H.T. 242", dated April 3, 1940.

The general locality of the area covered by this survey sheet is Florida, West Coast, in the immediate vicinity of the town of Gulf Hammock.

The higher ground back of the coast consists of several classes of vegetation, with large areas of swamp and little cultivation.

At the time this area was photographed the Florida State Highway No. 81, running through the town of Gulf Hammock had not been graded from a point about one mile south of Gulf Hammock to the northern limit of this sheet. This highway was field inspected as late as March 15, 1941 and at this time the highway grade had been completed, although still unpaved, for the entire distance between Lebannon Station and Otter Creek. The highway has been detailed on this sheet by using the center of the right of way as shown on the photograph and in accordance with information given by the field inspector.

All roads should be shown 0.6 m.m. wide as none of the roads on this sheet are wider than 12 meters.

Where the Waccasassa River crosses Highway No. 81 a new course has been cut for the river channel. The photographs show the old channel, but since the photographs were taken this has been filled in and pavement laid. The river has been drafted in accordingly and is shown in its present correctly located position. This also holds true for other streams shown to the south on Highway No. 81.

CONTROL

The following triangulation stations fall within the tracing limits of this sheet:

<u>Name of Station</u>	<u>Year</u>	<u>Established by</u>
GULF HAMMOCK WATER TANK	1933	H. C. Warwick
MAGNOLIA	1933	H. C. Warwick

Two other stations are shown on the sheet but outside the tracing limits. These stations are as follows:

<u>Name of Station</u>	<u>Year</u>	<u>Established by</u>
OTTER	1933	H. C. Warwick
LONG	1933	H. C. Warwick

No errors were found in the location of the control stations by the photographic plot nor in the plotting of the stations on the field prints.

The azimuth mark at triangulation station OTTER 1933 and at MAGNOLIA 1933 was located by the main radial plot. The location of these marks are in agreement with the geodetic azimuth determined by triangulation. The azimuth was checked to the nearest minute by means of a steel, 3-arm protractor.

TRAVERSE STATIONS

The traverse stations established by the Florida Mapping Project were not used for control on this sheet as their coordinates were not available at the time of making the main plot. Subsequent to the main plot, however, coordinates for some of these stations were available and they have been plotted on the sheet and indicated by the usual triangular symbol. Traverse stations for which coordinates were not available have been located by the main radial plot and are indicated on the sheet by 2.5 m.m. black circles and properly labeled.

When comparing the position as determined by the main radial plot with that as determined by the plane coordinates some discrepancies were noted, the largest being about 0.3 m.m. The discrepancies and the detail in the immediate vicinity of these stations have been corrected and are now shown in their correct positions.

MAIN RADIAL PLOT

A continuous radial plot was run on December 5-6, 1940 for the location of radial points, marked hydrographic and topographic stations, bench marks and azimuth marks. The plot covered the southern part of T-5793 and all of sheets Nos. T-5794 - T-5798, inclusive, comprising the area between Cedar Keys and the Chassahowitzka River. All photographs within this area were used including photographs in the vicinity of Cedar Keys, namely; Nos. 3858, 3859, 3837, 3838, 3839, 3703, 3704, and 3705. Of these latter pictures, all had been used in the previous radial plot involving sheet T-5793 except photographs Nos. 3858 and 3859, which had not been furnished at the time the previous plot was laid. Good agreement was obtained for the location of radial points at the junction of this and the previous plot.

This plot comprised of 41 templates and extended along the coastline for a distance of approximately 40 miles (nautical). Practically all templates were controlled by three or more triangulation and/or traverse stations, there being only one template with no control on it, namely, 3877. All templates were made in accordance with "Notes on Radial Plotting of Nine-lens Air Photographs" dated April 9, 1940, with the exception that many more radial points were located than recommended and that mask lines were not placed on the survey sheet.

The templates which were rigidly controlled were laid first, followed by those not so rigidly controlled. Agreement along the flight line was very good and most of the locations determined by the radial plot resulted in the common intersection at a point of three or more radial lines.

The usual practice was followed which consisted of plotting the control on the survey sheet and transferring it to the grid sheet, the latter being securely taped to the plotting table for running the plot. There was only a very slight amount of adjustment necessary when transferring the control by matching the individual grid squares. Upon completion of the plot, the radial points were picked and circled on the upper layer of templates and then transferred to the survey sheet by again matching grid squares.

Points determined by three or more radial lines intersecting at a common point were circled by 2.5 millimeter circles. Where a small triangle of error resulted, the point was picked in the center of gravity of the triangle giving due regard to the strength of the intersections resulting from the radial lines. In cases where the triangle of error was large, the radial lines were transferred directly to the survey sheet for additional study by the compiler to obtain a common point of intersection. It is believed that all points located by three or more radial lines on this plot are within .2 m.m. of their correct position with the exception of several points west of photograph center No. 3831 where there was a resulting triangle of error of 0.3 m.m.

On the extreme edges of the sheets it was possible in some areas to obtain but two radial lines. Such points are to be used with caution and are indicated by 2.5 millimeter blue circles on the back of the survey sheet with tick marks to show number and direction of radial lines at that point. No large or unusual adjustments were necessary in any part of the plot.

Various colored inks were used on the photographs and the survey sheet to designate triangulation stations, topographic and hydrographic stations, and radial points. The following key is furnished for future reference.

Photographs

Triangulation & Traverse stations.....	2.5 mm blue circle
Hydro. & Topo. stations.....	2.5 mm green circle
Radial points (main plot).....	2.5 mm red circle
Radial points (additional).....	3.5 mm red circle
Photograph centers:.....	double circle

Survey Sheet

Triangulation & Traverse stations.....	3.5 mm high black triangle
Hydro. & Topo. stations, including Traverse stations located by main radial plot.....	2.5 mm black circle
Radial points (main plot).....	2.5 mm blue circle on back of sheet
Radial points (additional).....	3.5 mm blue circle on back of sheet
Radial points (questionable).....	2.5 mm blue circle on back of sheet with tick marks showing number and direction of cuts.

INTERPRETATION OF PHOTOGRAPHS

The photographs were generally clear, photograph No. 3877 being particularly good.

FIELD INSPECTION

The field inspection was accomplished by Lieut. (j.g.) E. L. Jones and H. A. Duffy, Photogrammetric Aid, by truck and skiff during the month of September, 1940.

The field notes were plentiful on the east and south sides of the sheet, but meager in the northwest corner; this was due to the inability of inspection party to find means to get to this area due to lack of roads. This area, however, is mostly swamp and the vegetation similar to that throughout the sheet.

DETAILING

The entire sheet was rubbed with dry magnesium carbonate and washed with clear water immediately prior to inking. This gave a satisfactory result for inking entire sheet and little or no retouching was necessary due to the ink chipping or rubbing off.

The scale of the photographs Nos. 3830, 3827, 3877, and 3862 were good with photograph No. 3830 being exceptionally good. Photograph No. 3831 was poor.

It was not possible to obtain more than two radial lines for points east of the tracing limits on the east side of this sheet and detailing was not carried beyond the tracing limits shown. This same condition exists along the northern tracing limit, northward of latitude $30^{\circ} 18'$, and detailing was not done north of $30^{\circ} 17'$.

The detailing of this sheet has been done in accordance with the current instructions for this project.

The stereoscope was used for detailing and for the identification of vegetation in areas lacking field notes by comparing other areas of similar appearance which had been identified and labeled by the field inspection party.

JUNCTIONS

This sheet joins sheet No. T-5795 on the south and T-5793 on the west. The junctions of these sheets are in agreement.

COMPARISON WITH OTHER SURVEYS

There were no topographic maps available in this office for making a comparison with other surveys in this area. This sheet covers inland areas and has no shoreline.

5

GEOGRAPHIC NAMES

The geographic names in this area were submitted to the Washington Office in January, 1941 by Lieut. (J.G.) E. L. Jones in a special report on "Investigation of Geographic Names, Florida West Coast, Horseshoe Point to Anclote Keys, December 20, 1940".

LANDMARKS

There are no landmarks on this sheet which are useful to the mariner. Gulf Hammock aero beacon has been located and is submitted on Form No. 567 - Landmarks for Charts - for use on aeronautical charts.

FIELD INSPECTION

Reference should be made to a special report covering field inspection in this area submitted by Lieut. E.L. Jones and entitled, "Field Inspection Report - Horseshoe Point to Anclote Keys - December 27, 1940".

*Referred to
Aeronautical chart
section 7/14/41*

Respectfully submitted,

Rudolph Dossett
Rudolph Dossett
Photogrammetric Aid

Forwarded,

Kenneth G. Crosby
Lieut. Kenneth G. Crosby
Chief of Party

REVIEW OF AIR PHOTO COMPILATION NO. T- 5794

Chief of Party: Kenneth G. Crosby Compiled by: R. Dossett

Project: H.F. - 342

Instructions dated: April 3

14 40

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 14a, b, c, d, e, f, and i; 26; and 54)
No nautical charts cover this area. (This is an inshore sheet)
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (par. 23; and 55 g, h)
(Same as No. 1)
3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 55; and 55 d, e)
None
4. Blue prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 23)
None transmitted
5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
None available
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 55 c, h, i)
Yes
7. High water line or marshy and mangrove coast is clear and adequate for chart compilation. (Par. 14a, 43, and 44)
No high water line on sheet.

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

No shoreline on this sheet.

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

Yes

10. A list of landmarks was furnished on Form 557 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 154, 5; and 60)

Yes

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

No bridges of navigational importance. All are fixed span highway bridges over small unnavigable streams.

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

No overlay - See special report entitled "Investigation of Geographic Names - Horseshoe Point to Ancote Keys" submitted by Lieut. H. L. Jones.

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

Yes

14. Junctions with adjoining compilations have been examined and are in agreement. (Page 43)

Yes

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

1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report. Yes
2. The degrees and minutes of Latitude and Longitude are correctly marked. Yes

3. All station points are exactly marked by fine black dots. Yes
4. Closely spaced lines are drawn sharp and clear for printing. Yes*
5. Topographic symbols for similar features are of uniform weight.
Yes *. Legend used on rough draft.
6. All drawing has been retouched where partially rubbed off. Yes
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground. Yes*

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

16. No additional surveying is recommended at this time.

No additional topographic survey required.

17. Remarks:

- * This sheet is the first one compiled by this draftsman and the drafting is not as neat as desired. The information however is accurately located and it is approved since the neatness of the drafting will improve with further experience.

18. Examined and approved:

Kenneth G. Crosby
Kenneth G. Crosby
Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examined and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography

LEGEND USED ON FIELD INSPECTION
HORSENEHOE POINT TO TARPON SPRINGS, FLORIDA
APRIL - DECEMBER, 1940 - LIEUT. W.L. JONES AND M.A. RUFFY

TREES

P1 - Pine
 Cy - Cypress
 Palo - Palmetto
 Palu - Palm
 D T - Deciduous trees (broad leaf)
 Cit - Citrus (orchard)
 Mix - Pine, cypress & Dec. trees
 (Density)
 Sct. - Scattered
 t.w. - Thinly wooded
 h.w. - Heavily wooded
 Scr - Scrub trees; brush

VEGETATION

C - Cultivation
 Gr - Grass
 TGr - Tall Tropical Grass
 M - Marsh (dashed blue line on
 inshore limits)
 M W - Marsh grass in water (dashed blue
 line on offshore limits)
 Sw - Swamp
 Mg - Mangrove
 Hdg - Hedge

STREAMS

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

F.C.S. - Florida Geodetic Survey
 U.S.E. - U.S. Engineers
 USNS - U.S. Geological Survey

ROADS & RAILROADS

Rd 1 - 1st class road (paved)
 Rd 2 - 2nd class road
 Tr - Trail
 R R - Rail Road
 O P - Overpass (state the kind)
 U P - Underpass (state the kind)
 X - Abandoned trail, road, etc.
 RR ab. - R.R. abandoned (grade only)

PONDS

P - Pond
 Cy P - Cypress Pond
 I P - Intermittent Pond

SHORE LINE

H.W.L. - mean high water line (solid
 red line - fast land)
 L.W.L. - low water line (dashed red line)
 L.L. - Light line (solid blue line for
 mean high water line on marsh)
 Ik - Dock
 Pt - Pier
 Se W - Seawall
 Bhd - Bulkhead
 Conn - Concrete
 Wo - Wooden
 Jet - Jetty
 dol - Dolphin
 pile - pile (give type)
 S - Sand
 Mud - Mud
 Rk - Rock or Rocky
 Sty - Stony
 W - Water
 Blf - Bluff (height)

BUILDINGS

H - House, barn or building
 Ch - Church (give name)
 Ct H - Court House (give name)
 De H - Deaf House
 P.O. - Post Office (give name)
 R.R. Sta - Railroad station (give name)
 hos - Hospital (give name)
 Sch - School (give name)

MISCELLANEOUS

P - Pumph
 FB - Fire Break (maintained)
 FXB - Fire Break (abandoned)
 Cem - Cemetery
 Park - Park (give name)
 F.T. - Fire Tower
 T.T. - Transmission towers (tall steel)
 P.L. - Power Line
 Sheal - Approx. limits by long dashed
 line for use by hydrographer

T5794

Copy to field 7/13/41
by KTA

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5794

Contemporary Surveys

There are no contemporary graphic control or other surveys in the area covered by T-5794.

Previous Surveys

There are no previous topographic maps covering any of the area of T-5794, as this survey is entirely inland and does not include any shoreline details.

Topographic Stations

Form 524 cards for described stations are filed under T-5794.

Station "Small Tree," Lat. $29^{\circ} 11.3'$, Long. $82^{\circ} 46.7'$ was moved approximately 15 meters in this office, since an examination of the photographs showed this point to be out of agreement with the numerous other stations in the immediate vicinity. The new position was obtained by holding photographs to the centers and the control established by main radial plot.

Radial Plot

The main radial plot has not been checked in this office. See pages 2 and 3 of Descriptive Report for discussion of this plot.

Field Inspection

The field inspection for T-5794 was adequate for a satisfactory interpretation of detail in the area covered.

Detailing

In several instances the detailing of T-5794 has not been held closely enough to the minor control points, notably in the highway (Fla. #81) from the southern limit of the survey to a point just south of Gulf Hammock. From examination of the photographs and from field inspection measurements this highway was

found to be approximately 8 meters out of correct position. Other corrections necessary were all minor corrections involving lesser changes in location of minor roads and several buildings.

The line of change from the heavily wooded area back of the coastal marsh to the swamp is not well defined and is difficult to interpret without local knowledge. The field interpretation is accepted. In making the smooth drawing the symbols will be merged to show a gradual change rather than a distinct line of change.

Comparison with Charts

The inland area covered by T-5794 does not appear on any of the charts of that region.

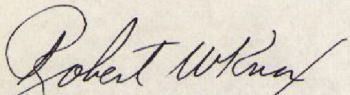
General

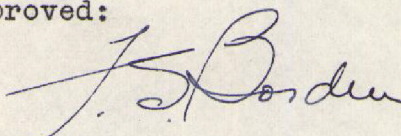
The Descriptive Report and compilation of detail are complete and the rough sheet satisfactory for re-drafting in this office.

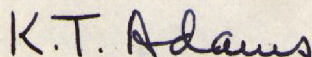
Reviewed by L. V. Evans, July 14, 1941

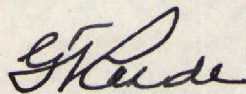
Inspected by B. G. Jones

Examined and Approved:


Chief, Surveys Section


Chief, Division of Charts


Chief, Section of Topography


Chief, Division of Coastal Surveys

Hydrographic stations located on celluloid manuscript
but not shown on published copies added to file
copy in red 11-29-43

T-5794

Remarks.

Decisions

1		292828
2		291827
3		291828
4		291827
5		"
6		"
7		"
8		"
9		292827
10		
11		"
12		"
13		"
14		"
15	Submitted to USGB: OK to apply pending action	291827
16	One word	"
17	<i>not compiled</i>	See Name Sheet 292827 No. 15.
18	Railway Guide	
19	Sheet 6, Fla. Transp. Map; Texaco and Shell Road Maps	
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No.

T-5794

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.	
✓ <u>Gulf Hammock (wooded area)</u>									1
✓ <u>Waocasassa River</u>									2
✓ <u>Bird Creek</u>									3
✓ <u>Double Barrel Creek</u>									4
✓ <u>Staffords Island</u>									5
✓ <u>Crooked Creek</u>									6
✓ <u>Dead River</u>									7
✓ <u>Otter Creek (stream)</u>									8
✓ <u>Wekiva River</u>									9
Gunn Landing									10
✓ <u>Gunn Landing</u>									11
✓ <u>Beeks Landing</u>									12
✓ <u>Gulf Hammock (town)</u>									13
✓ <u>Mule Creek</u>									14
✓ <u>Cow Creek</u>									15
✓ <u>Bullfrog Creek</u>									16
<u>Flat Branch</u> (add to sheet rear n.e. corner)									17
✓ <u>A.C.L. R.R.</u>									18
✓ <u>State Highway No. 81</u>									19
✓ <u>To Otter Creek</u> - - - direction note									20
✓ <u>To Dunnellen</u> - - - " "									21
									22
									23
									24
									25
									26
									27

Names underlined in red approved
by _____ on _____