

8420

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

1248-2

8420

Form 804	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	TOPOGRAPHIC
Field No. T-8420	Office No. T-8420
LOCALITY	
State	Florida
General locality	Palm Beach County
Locality	Greenacres City
194 6	
CHIEF OF PARTY	
Lt. Comdr. J. C. Bose	
LIBRARY & ARCHIVES	
DATE	June 3, 1948

DATA RECORD

T-8420

Greenacres City
Quadrangle (II): T-8420
Declination 1°15' E

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

Field Office: Tampa, Fla.
Sub-Field Office: Miami Beach, Fla.

Chief of Party: Lt. Comdr. J. C. Bose

Compilation Office: Tampa, Fla.

Chief of Party: Lt. Comdr. J. C. Bose

Instructions dated (II III): 24 May 1945

Copy filed in Descriptive
Report No. ~~2~~ (VI)
Division Photogr. Office Files

Completed survey received in office:
28 August 1946

Reported to Nautical Chart Section:

Reviewed: 22 Nov 46 Applied to chart No. Date:

Redrafting Completed:

Registered: ^{May} 18 March 1948

Published:

Compilation Scale: 1:20,300

Published Scale: NA 27
NA 21.5m
NA
1:24,000

Scale Factor (III): .98522

Geographic Datum (III): North American, 1927 Datum Plane (III): M. S. L.

Reference Station (III): CONVICT, 1934

Lat.: 26° 32' 56" 330 Long.: 80° 12' 19" 445 Adjusted
(1707.92 M) (530.30 M) ~~unadjusted~~

State Plane Coordinates (VI): Florida, East Zone

X = 759,770.89 ft. Y = 805,998.49 ft.

Military Grid Zone (VI) "B" (No overlapping zone)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
12172	11-25-42	11:50 AM	1:20,300	(Inshore Quadrangle)
12173	"	"	"	"
12174	"	"	"	"
12175	"	"	"	"
12148	"	11:21 AM	"	"
12149	"	"	"	"
12150	"	"	"	"
12151	"	"	"	"

Tide from (III): --

Mean Range: --

Spring Range: --

Camera; (Kind or source) U. S. C. & G. S. 9 lens, 8 1/2 focal length

Field Inspection by: Geo. C. Whitehurst, Jr. Engr. Aid date: May and June, 1945
Lowell I. Bass, Jr. Engr. Aid

Field Edit by: J.K. Wilson date: Mar. to June 1946

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

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

" " " checked by: Washington Office date: January, 1944

Control plotted by: Vincent F. Simmons date: Aug. 1945

Control checked by: Bennie H. Lyon date: Aug. 1945

Radial Plot by: Bennie H. Lyon date: Sept. 1945

Detailed by: Charles H. Baldwin date: January 1946

Reviewed in compilation office by: J. A. Giles date: February 1946

Elevations on ~~Field Edit Sheet~~ ^{Manuscript} checked by: J.L. Rihn date: Aug. 1947

STATISTICS (III)

Land Area (Sq. Statute Miles); 66.7

Shoreline (More than 200 meters to opposite shore); None

Shoreline (Less than 200 meters to opposite shore); None

Number of Recoverable Topographic Stations established; 1

Number of Temporary Hydrographic Stations located by radial plot; None

Leveling (to control contours) - miles; 31.6

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;

DESCRIPTIVE REPORT TO

ACCOMPANY

QUADRANGLE No. 8420 (G C)

Project CS-312A

July 25, 1945

1. DESCRIPTION OF THE AREA

This $7\frac{1}{2}$ minute quadrangle lies within Palm Beach County on the East Coast of Florida. It is bounded on the north by Latitude $26^{\circ} 37' 30''$, on the south by Latitude $26^{\circ} 30' 00''$, on the west by Longitude $80^{\circ} 15' 00''$, and on the east by Longitude $80^{\circ} 07' 30''$. The area includes approximately 66.7 square statute miles of land with elevations ranging from 20 feet on a flat ridge near the southeast portion of the area to just under 15 feet near the southwest corner of the quadrangle except for the western edge of the area which runs into gladeland, the whole area is criss ~~crossed~~^{crossed} by a system of ditches in which the water level is controlled by flood gates and pumps for drainage and irrigation for the purpose of promoting cultivation.

The principal cultural features are Florida State Highway No. 199 (Range Line Road or West Dixie) which bisects the quadrangle from north to south with connecting roads into Lake worth, Lantana and Boynton Beach. There are no incorporated cities within this quadrangle, however, there are several small farming settlements scattered throughout the area.

There are numerous areas of cultivation throughout the quadrangle where the water can be controlled by drainage and irrigation.

The vegetation is principally pine, cypress, palm, palmetto, and grass, with small patches of scrub oak brush on the higher ground. The cypress grows in a few of the intermittent ponds and abounds along the western portion of the quadrangle bordering the gladeland. That portion of the area extending into the everglades is covered with heavy grass and scattered hummocks of custardapple trees.

The work in this area was carried on during the one of the driest periods - according to local residents - of any extent in the last ten years, consequently very few intermittent ponds contained water.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection was done in accordance with instructions, dated Nov. 6, 1942, to War Mapping projects and supplemental instructions issued for this project. A large part of the field inspection was done by George C. Whitehurst, Jr. Engineering Aid and some in the northern half of the area was done by Lowell I. Bass, Junior Engineering Aid. While most of this area had been recently inspected for planimetric maps*, the inspection had to be supplemented in numerous cases to conform with recent instructions.

** This project was originally intended as a planimetric mapping project and was later converted to topographic mapping.*

All important features such as new buildings, ditches, roads and new cultivation were added to give the latest possible data and are complete as of date of inspection.

3. INTERPRETATION OF PHOTOGRAPHS

The color tone varies: from almost black in deep water and spots of muck to white in bare sand areas. Heavy growths of pine appear smooth and have a dark steel tone. Heavy palm is of lighter tone with a pebbly texture; grass is a light steel tone; brush is a dark grey tone with a mottled texture; palmetto shows a light grey tone with a velvety texture. Intermittent ponds vary from a light grey in sand and grass bottoms to almost black in those with wet mud bottoms. In every case, a well defined berm outlines these intermittent ponds.

4. HORIZONTAL CONTROL

All horizontal control was recovered in this quadrangle during the field inspection for planimetric mapping.

5. VERTICAL CONTROL

All of the U.S. C. & G. S. bench marks were recovered during the field inspection for planimetric mapping and transferred to field prints No. 12149B, 12150, 12151A, 12172, 12173, 12174. Using these bench marks as a base, fly level lines were run with a wye level, between bench marks with intermediate lines to give an overall, well distributed, coverage of vertical control. Along these lines of levels, temporary bench marks were established at about $\frac{1}{2}$ mile intervals at identifiable points. Where suitable surfaces were available, such as hard surface roads or wooden bridges, a bottle cap was used as a mark, but where no such surface was available, stakes were driven flush with the ground and a guard stake driven near by, showing the station designation. All level lines were run well within the required limits of accuracy, adjusted, and carefully checked. All level elevations were spotted and inked in blue with the station numbers identifying them.

6. CONTOURS AND DRAINAGE

The contouring was done in accordance with instructions for this project, on photographs Nos. 12149B, 12150, 12151A, 12172, 12173 and 12174 using standard planetable methods, supplemented in a few cases by pacing and hand leveling.

A large portion of the area contained an elaborate system of drainage and irrigation ditches which interrupted the normal course of the contours. In these cases the direction of the contour at the break was indicated; the point at which the contour turned on the spoil or within the ditch was also indicated with frequent elevations spotted on the spoil banks and water level of the ditches. The spoil bank symbol was used to indicate a continuance of the spoil, even though the contour was turned on account of the variation in elevation of the spoil. Different elevations on water level in the same ditch indicate the fluctuation caused by control by pumps and locks, rather than slope of the grade in the ditch.

After the contouring was completed there was a period of heavy rain which raised the water level in the ditches $1\frac{1}{2}$ to 2 feet, and according to local residents this was about the normal year around water level, which will cover practically all 15 foot contours within the ditches on this quadrangle.

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

There is no natural drainage in this quadrangle.

7. MEAN HIGH WATER LINE

Not applicable to this quadrangle.

8. LOW WATER LINE

Not applicable to this quadrangle.

9. WHARVES AND SHORELINE STRUCTURES

Not applicable to this quadrangle.

10. DETAILS OFFSHORE FROM HIGHWATER LINE

Not applicable to this quadrangle.

11. LANDMARKS AND AIDS TO NAVIGATION

Not applicable to this quadrangle.

12. HYDROGRAPHIC CONTROL

Not applicable to this quadrangle.

13. LANDING FIELDS AND AERONAUTICAL AIDS

No landing fields or aeronautical aids fall within the limits of this quadrangle.

14. ROAD CLASSIFICATION

All roads were classified in accordance with instructions for this project prior to June 30, 1945. Filed in Div. Photogrammetry Office files.

In numerous cases of 4U roads, these were deleted because of small relative importance and changing condition from year to year.

15. BRIDGES

The bridges in this quadrangle were not classified, due to issuance of recent instructions for this area.

16. BUILDINGS AND STRUCTURES

All habitable buildings were circled. Barns, packing sheds, or other buildings of sufficient topographic importance were labeled.

17. BOUNDARY MONUMENTS AND LINES

No city boundaries fall within this quadrangle.

Precinct boundaries were secured from the registrar's office at the county court house in West Palm Beach, Florida. These boundaries follow section lines or charted cultural features, and are shown on the field inspection prints. *They will precinct boundaries will not be shown on the printed map.*

18. GEOGRAPHIC NAMES

A thorough investigation and a special report was submitted by Lowell I. Bass, Junior Engineering Aid, during the field inspection for planimetric mapping.

Approved list of names attached to this report.

19. SECTION CORNERS

All of the section corners, accessible or falling within an area where there was a possibility of identifiable points, were searched for or recovered and tied in on the field inspection prints. Those marks recovered were submitted on picking cards with a short description. Only those corners marked in some manner were submitted.

Respectfully submitted

Approved and forwarded

J. C. Rose

J. C. Rose, Lieut. Comdr.
Chief of Party

Harold A. Duffy

Harold A. Duffy
Prin. Photo. Aid

MAIN RADIAL PLOT, T-8420, PROJECT 312-A

No data

The radial plot for this quadrangle was an extension of a plot which had been previously completed for quadrangle T-8421 to the east and for quadrangle T-8423 to the south.

The centers for the following photographs (nine lens) had previously been located in the plot for quadrangle T-8421, but were re-layed in order to extend secondary control further west; 12148, 12149, 12150, and 12151. Then the following nine lens photographs were added; 12172, 12173, 12174 and 12175.

Secondary control from the previously completed plot was transferred to quadrangle T-8420 and were used as control in completing the plot. Only one triangulation station, CONVICT 1934, falls within the limits of this quadrangle. In addition to the control already mentioned, triangulation station, FERGAN in quadrangle T-8419, triangulation station JERSEY which falls in quadrangle T-8421, and triangulation station, DEWITT 1934, which falls in quadrangle T-8423, were used in controlling this plot.

The usual method of eliminating the effect of paper distortion in the unmounted nine lens photographs was employed. Templates were made as usual and secondary control picked on the photographs in the regular manner.

No unusual difficulties were encountered either with photographs or in holding control , therefore, it is believed that all parts of the sheet meet the prescribed accuracy requirements. The junctions with surrounding sheets were completed and the quadrangle was assigned to the compiler for the addition of detailing points.

Respectfully submitted



Bennie H. Lyon

Asst. Photo. Engineer

Approved and forwarded



Lieut. Comdr. J.C. Bose

Chief of Party.

**COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8420**

26 & 27 - CONTROL & RADIAL PLOT

A separate report on Control and Radial Plot is being submitted by Mr. B. H. Lyon, Assistant Photogrammetric Engineer.

*See preceding two
pages.*

28 - DETAILING

The photographs used in detailing this quadrangle were clear, though the scale on photographs Nos. 12148, 12149, 12150 and 12151 was poor while the scale on photographs Nos. 12172, 12173 and 12174 was exceptionally good.

A large number of ditches dug since the photographs were taken were drawn on field prints by the field party.

The drafting of these ditches was done by transferring the detail points from the office prints to the field prints and drafting the ditches directly from the field prints.

The drafting the contours along spoil banks where both a 20 and 25 foot contours overlap each other only one contour is shown, labeled "20' & 25'", and an arrow and note indicating where the 25 foot contour turns. All areas of this type were completed on the manuscript prior to the receipt of office inspection report for quadrangle No. T-8421 bearing the date 29 October, 1945.

Hundreds of small, intermittent ponds appear over the entire area covered by this map manuscript (excepting the true glade lands). No attempt has been made to show every one but a sufficient number has been delineated to describe this predominant feature

29 - SUPPLEMENTAL DATA

Inapplicable.

30 - SECTION LINES

Section lines will be added at the time of the field edit.

31 through 36

Inapplicable.

44 - COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES.

None.

45 - COMPARISON WITH NAUTICAL CHARTS.

Inapplicable.

Respectfully submitted

Chas H Baldwin
Charles H. Baldwin *By J.A. Giles*
Photogrammetric Aid.

Approved and Forwarded

J.C. Bose
Lieut. Comdr. J.C. Bose
Chief of Party.

TAMPA OFFICE INSPECTION
of T-8420

1. The woodland classifications have been handled on a broad basis according to the instructions. Along the western limits of the Quadrangle where there are glade lands, miles of brush swamp liberally sprinkled with large and small clumps of tall trees, it was found to be difficult to avoid a "chopped up" appearance and still give a true picture of the area.
2. The trees on the hammocks in the glade lands have been considered "isolated clumps of trees in open areas" (See "Instructions for the Field Inspection and Compilation of Wooded Areas" dated 30 June, 1945, paragraph No. 3)

If the area is to be "stuck up" with the conventional glade land symbol (See Field Memorandum No. 1 (1938), Figure No. 3), obviously the above interpretation may be dispensed with.
3. In the swamp areas the limits of the "Dense Woods" (over-tint) have been indicated. Most of these fall within large areas of "Brush" (over-tint). The two were separated in an effort to give an accurate picture of the woodland which is believed to be peculiar to this area.

If all swamp areas, whether brush or tall trees, are to be stuck up using a single over-tint the above treatment will, of a necessity, be found to be incorrect.
4. Information is requested as to the manner in which the areas described in paragraphs two and three will eventually be shown on the published quadrangle. The request is made in order that the Tampa Office may draft future map manuscripts towards that end.

Approved in connection with T-8420

Respectfully submitted,

Jesse A. Giles
Jesse A. Giles

8 March, 1946.

Tampa Review Section.

FIELD EDIT REPORT
GREENACRES CITY
QUADRANGLE T-8420
PROJECT GS 312-A

46. METHODS

In checking the map compilation, all roads were traversed by truck. There were very few roads in this quadrangle, so therefore it was necessary to walk in many places. All buildings, roads, ditches, cleared areas etc., added to the map compilation were done by planetable methods except for a very few instances where measurements were plotted from topographic features.

47. ADEQUACY OF THE COMPILATION

The compilation was adequate and correct except for a very few instances where some small changes have been made since the date of the field inspection.

Attention is called to the extreme southern portion of this quadrangle near the Florida State Highway 195. This area is being developed very rapidly. The land is being cleared and ditched for cultivation and only a few houses have been built at the present time.

This quadrangle lies in the center of an area controlled by the Lake Worth Drainage District. It is the belief of the local Lake Worth Drainage District Engineer that a great portion of this quadrangle east of the range line road (state highway 199) will be cleared and ditched for cultivation in the next two or three years.

Attention is called to a fifteen foot contour located in the extreme southwestern portion of this quadrangle in the everglade area. At the time of this field edit, this area was covered by water and was inaccessible; but, after observation at other points along this everglade area, it is believed that this contour is correct as shown by the original planetable party. The elevations in this glade area usually only change from 0.2 to 0.5 feet in the lower spots.

Attention is called to a black-top road leading west from Lake Worth through Greenacres City to the Range Line Road (State Highway 199). This black-top road is State Highway 174.

Attention is called to the Range Line Road (State Highway 199). This road is now under construction and will be completed in the latter part of 1946. The classification of this road will be Rd. 1 when completed. For the bench marks which will be reset along this road, see descriptive report of quadrangle T-8419.

This road will be shown as class 3 with a note that it is being reconstructed. J.R.

The original field work in this quadrangle was done very thoroughly and the topographer has shown the spoil elevations along ditches more thoroughly and much clearer than in many other quadrangles in this project.

48. VERTICAL ACCURACY TEST

No vertical accuracy test was run in this quadrangle. Mr. Harold Duffy did the original plane-table work on quadrangle T-8420 and T-8421. The vertical accuracy test run in quadrangle T-8421 was considered sufficient for both quadrangles.

See appendix of descriptive report for T-8421. J.R.

44. ROAD CLASSIFICATION

All roads were reclassified according to the new instructions dated 30 June 1945.

49. WOODLAND

Some few woodland changes have been made of areas that have been recently cleared. The woodland overlay was very good.

Woodland overlay discarded. See remarks. J.R.

18. GEOGRAPHIC NAMES

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The geographic names for this quadrangle will be submitted in a special report by Mr. Lowell I. Bass. Only a small portion of Greenacres City was included on this sheet. This small portion is located in the extreme northeastern part of this quadrangle. See Mr. Bass's report in regard to Greenacres City.

See attached list of names.

This map manuscript was examined for possible errors by Mr. I. Boyd. Mr. Boyd is the County Engineer of Palm Beach County. There were only a few road numbers, etc., in this sparsely settled quadrangle. Mr. Boyd found no errors.

See revision report in section 50.

Mr. Boyd's address is West Palm Beach, Florida. The engineer of the Lake Worth Drainage District whose office is in Boynton Florida, and the county engineer of Palm Beach County have both expressed the desire to have copies of our topographic maps in Palm Beach County when they are printed.

50. SECTION CORNERS

A thorough check was made in regard to section corners not found on the original field inspection. One additional corner was found on State Highway 195. This corner was pricked on photograph 12151-B and a pricking card is being submitted.

51. DATE OF FIELD EDIT

The field edit work was accomplished between the month of March and June of 1946 with most of this work being done in June.

Respectfully submitted

Joseph K. Wilson
Joseph K. Wilson
Photogrammetric Aid

Forwarded thru

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

The Field Edit corrections were made in the compilation office at Tampa, Fla.

PUBLIC LAND LINES
PROJECT CS-312A

*Rec'd
1946*

7

QUADRANGLES T-8420, T-8421, T-8422 and T-8423.

7

The above area lies within Townships 44 south through 47 south and Range 41 east through 43 east.

Paragraph one (1) of the Public Land Line report submitted 17 April 1946, is applicable to this report.

The General Land Office plats were plotted to the scale of the projection (1:20,300) for the above mentioned townships. An overlay on tracing cloth was then made of the four quadrangles, showing all section corners recovered by field party and radially cut in. An attempt was made to adjust the plotted plats to the recovered corners. Apparently the General Land Office plats are so much in error that this could not be done with any degree of accuracy. The recovered corners would not agree with the Township plats.

Palm Beach?
The field party made a thorough investigation of section line data while working in this area and secured a sectionized map of Broward County prepared by the Florida State Road Department in cooperation with the U.S. Department of Agriculture.

Local engineers were consulted and this map was recommended as being the best available.

This map compares favorably with the recovered corners and detail on the photographs. All roads, ditches and cultural lines were transferred to the overlay from the map manuscript and by visual comparison with the State road map the section lines were constructed.

Due to the lack of cultural details in certain areas (glade-land area) the lines had to be constructed by extending the controlled lines and therefore are probably in error.

The numbering system used in certain areas on the State Road map does not conform with standard General Land Office procedures, and no information could be found relative to this numbering system. This matter was discussed with a local County Engineer, (Mr. W. A. McMullen Jr., Pinellas County) and he could give no information regarding this numbering system. However, he has used this type map a great deal and found them to be very good as to the true representation of the land lines. Therefore, the numbers that appear on the map manuscript were taken from the State Road Map.

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Two recovered corners appear to be incorrect and are listed as follows:


- (1) In quadrangle T-8423 at approximate Latitude $26^{\circ} 28' 53''$, Longitude $80^{\circ} 12' 18''$.
- (2) In quadrangle T-8420 at approximate Latitude $26^{\circ} 32' 35''$ and Longitude $80^{\circ} 09' 20''$. Both appear to be points on the section lines rather than corners. The recovered corners have been left on the map manuscript and encircled with a green circle. These two corners should be removed from the sheet if the Washington Office agrees that they are in error.

The lines have been shown on the front of the sheet with brown acid ink.

Respectfully submitted

William A. Rasure
William A. Rasure,
Photogrammetric Engineer

Approved and forwarded:


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

Division of Photogrammetry
Review Report of
Topographic Map Manuscript T-8420

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

26. Control.

Bench marks moved during the construction work on State Route 199 were deleted from the map manuscript.

28. Drafting.

The vegetation classification, shown on an overlay, was transferred to the map manuscript and the overlay was discarded.

Corrections were made to improperly symbolized depression contours.

State Route 199, under construction, has been changed to a class 3 road and marked "being reconstructed".

A drafting overlay was prepared, by the reviewer, as an aid to the smooth draftsman. It shows road classifications, horizontal and vertical control, spot elevations, grid ticks and numbers, etc.

38. Section Lines.

A system of land lines and numbers as supplied on a state road map by William Rasure appeared on the original map manuscript. These were found to be block lines and numbers used in the survey of the subdivision of Palm Beach Farms. This system of lines was deleted by the reviewer. A later survey showing the relation of the block system to the section lines was obtained. This survey used in conjunction with the recovered section corners, submitted by the field parties, enabled a positive reconstruction of the section lines, as originally planned by the General Land Office, to be made. The new system of land lines is shown on the map manuscript in brown ink.

48. Accuracy Tests.

No vertical accuracy tests were run in this quadrangle. A test, made in the adjoining quadrangle T-8421, is adequately described in the descriptive report for that survey. ~~It is believed that~~ This map complies with the national standard map accuracy requirements.

49. Datum.-The map manuscript for this quadrangle was compiled in two parts, the major portion being on the North American 1927 datum, and a small section in the southeast corner on the North American datum.

Ticks, representing the North American 1927 datum, were added to the small section of the map manuscript. This section was then matched to the larger portion and held in place by cellophane tape.

Correction to the North American 1927 datum was made by C. Wittmann and verified by H. Brooks.

Reviewed by: -

Reviewed under direction of:

Jack L. Rihn
Jack. L. Rihn
15 August 1947

S. V. Griffith
S. V. Griffith
Chief, Review Section

APPROVED:

B. G. Jones
Technical Assistant to the
Chief, Div. of Photogrammetry

H. R. Pittman
Chief, Nautical Chart Branch
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

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

GEOGRAPHIC NAMES

Survey No.

T-8420

GREENACRES CITY 7 $\frac{1}{2}$ ' quad.

Name on Survey

	A	B	C	D	E	F	G	H	K	
	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		
<u>Florida</u>									USGB	1
<u>Palm Beach County</u>										2
<u>Greenacres City</u>				(N.B. that the postoffice of this name is situated on T-8421, to eastward)						3
										4
<u>State No. 7</u>		(not State 199)			(North-south)					5
<u>State 804</u>		(not State 195)			East-west					6
<u>State 802</u>		(not State 174)			East-west					7
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Names underlined in red are approved. 16/22/47 L. Heck