

9831

Diag. Cht. No. 1217-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-72(51) Office No. T-9831

LOCALITY

State New Jersey

General locality Cape May County

Locality Avalon

1947/50-53

CHIEF OF PARTY

H.F.Garber, Chief of Party

H.A.Paton, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE November 10, 1959

9831

DATA RECORD

T - 9831

Project No. (II): Ph-72(51)

Quadrangle Name (IV):

Field Office (II): Edenton, N.C.

Chief of Party: Harry F. Garber

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III): 18 April 1951

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

JUN 4 - 1952

Date reported to Nautical Chart Branch (IV): JUN 10 1952

Applied to Chart No.

Date:

Date registered (IV):

2-26-58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): AVALON, 1932

Lat.: 39° 06' 22.519" (694.4m)

Long.: 74° 42' 50.779" (1220.1m)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

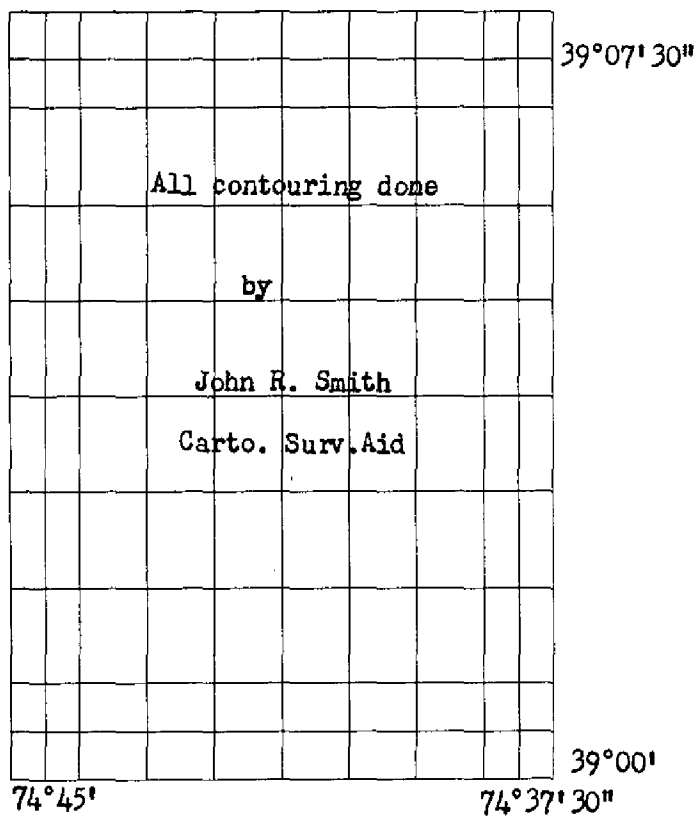
Zone:

Y=

X=

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

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



Areas contoured by various personnel
 (Show name within area)
 (II) (III)

DATA RECORD

Field Inspection by (II): John R. Smith, Carto. Surv. Aid

Date: 1 May 1951 to
8 May 1951

Planetable contouring by (II): John R. Smith, Carto. Surv. Aid

Date: 1 May 1951 to
8 May 1951

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 4-16-50 Photogrammetric

Projection and Grids ruled by (IV): J. A.

Date: 9-7-51

Projection and Grids checked by (IV): H. R. C.

Date: 9-7-51

Control plotted by (III): Albert Queen

Date: 10-11-51

Control checked by (III): Frank J. Tarcza

Date: 10-15-51

~~Radial Plot of Stereoscopic~~~~Photo Coordinates by~~ (III): Ruth R. Hartley

Date: 12-7-51

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): Carolyn M. Kable

Date: 5-23-52

Photogrammetric Office Review by (III): Raymond Glaser

Date: 5-28-52

Elevations on Manuscript
checked by (II) (III): Raymond Glaser

Date: 5-28-52

Camera (kind or source) (III): USC&GS single lens type "0" camera, focal length 6"

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide MLW
51-0-1692 to 51-0-1696 incl.	3-23-51	0930	1:10,000	(3.0 ocean 3.6
50-0-772 & 50-0-773	4-16-50	1009	1:10,000	1.8 ocean
50-0-717	4-16-50	0931	1:10,000	2.4 ocean
50-0-718	4-16-50	0932	1:10,000	(2.4 ocean 3.1
50-0-719 to 50-0-721 incl.	4-16-50	0934	1:10,000	3.1

* (Balance of photographs are listed under "Remarks")
Tide (III)

From Predicted tide tables

Reference Station: Sandy Hook

Subordinate Station: Townsend Inlet

Subordinate Station: Long Beach

Ratio of Ranges	Mean Range	Spring Range
	4.6	5.6
0.8	3.8	4.6
0.8	3.8	4.6

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 6 sq. miles

Shoreline (More than 200 meters to opposite shore) (III): 10 mi

Shoreline (Less than 200 meters to opposite shore) (III): 24 mi

Control Leveling - Miles (II): 6.0

Number of Triangulation Stations searched for (II): 18

Number of BMs searched for (II): 21

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): None

Recovered: 14 Identified: 6

Recovered: 12 Identified: 11

Remarks: In addition to the two Recoverable Photo Stations established,
five more were searched for of which two were found to be destroyed.

Photographs (III)

* 50-0-417 & 418 4-8-50 1017 1:10,000 2.1 ocean

50-0-419 to

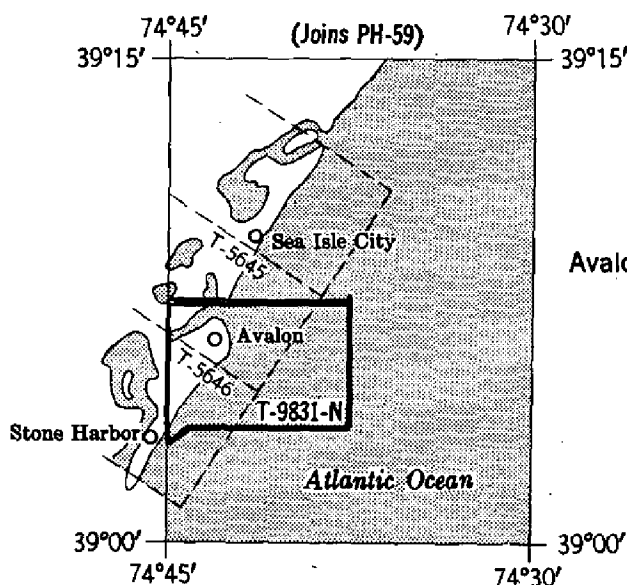
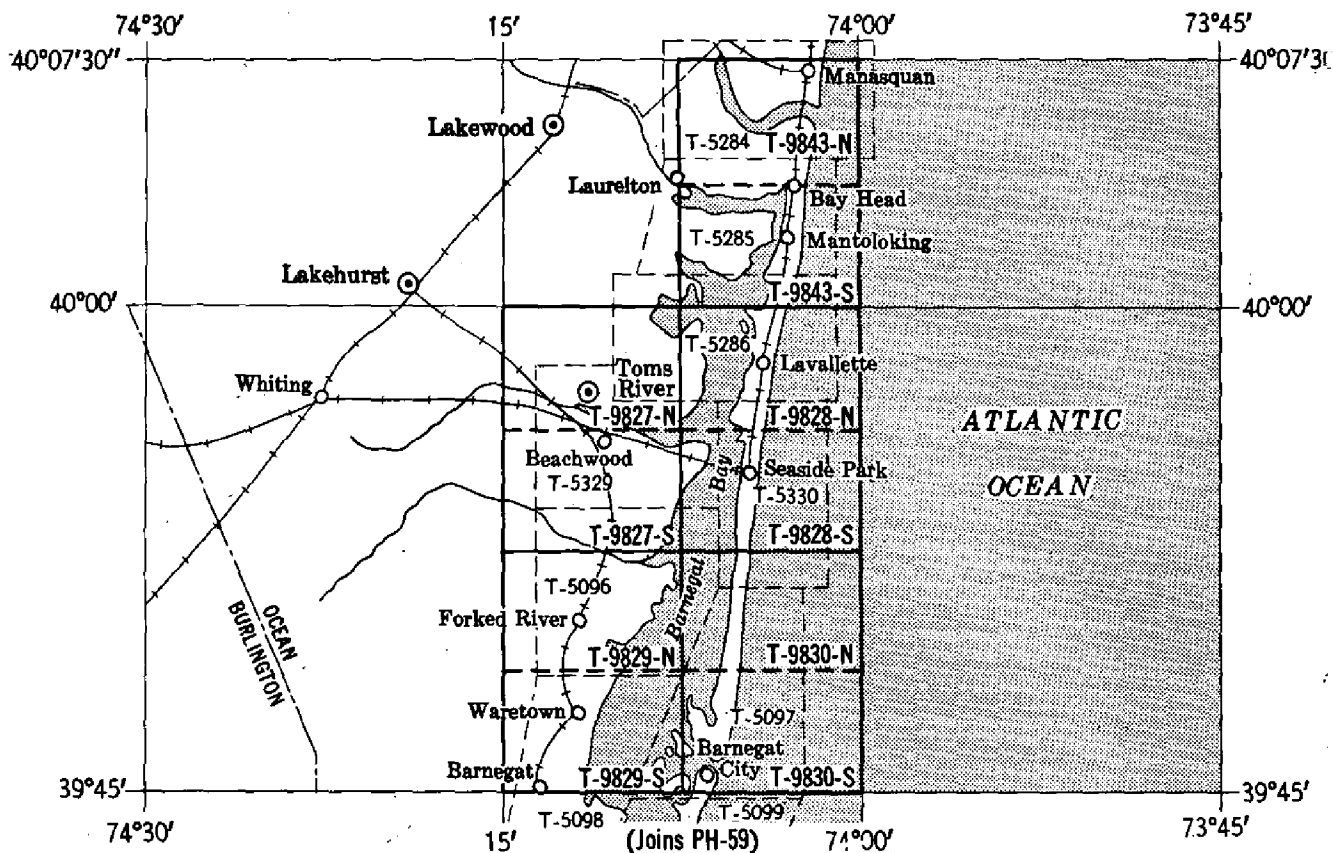
50-0-422 4-8-50 1018 1:10,000 1.5

incl

TOPOGRAPHIC MAPPING PROJECT PH-72 (51)

NEW JERSEY, Barnegat Bay - Toms River and Vicinity

Compilation scale 1:10,000



Avalon and Vicinity PH-72 (51)

FIELD INSPECTION REPORT
Quadrangle T-9831
Project Ph-72(51)

Harry F. Garber, Chief of Party

The field work for this quadrangle was done in accordance with Instructions, dated 18 April 1951, Project Ph-72(51), under the direction of Joseph K. Wilson, Supervisor. Field work, in addition to those phases listed on page 3, was done by the following personnel:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
Leo F. Beugnet	Horizontal Control	May, 1951
Cartographic Survey Aid	Recovery and Shoreline	

This report is written in accordance with Paragraph 724 of the Topographic Manual, Part II, dated 1949.

2. AREAL FIELD INSPECTION

The land area of the quadrangle comprises a narrow strip of barrier beach adjacent to the Atlantic Ocean. The sea side of the strip consists of shifting sand dunes partially brush-covered. The bay side of the strip is marshland.

The Borough of Avalon and parts of the Boroughs of Stone Harbor and Sea Isle City are within the quadrangle. These are summer resorts, and are almost fully developed. The area is adequately served by hard-surfaced roads. There are no railroads within the quadrangle.

The photographs used were taken in 1950 and 1951. It was noted that the marshland on the 1951 photographs was covered by considerably more water than in 1950. No difficulty, however, was encountered in their interpretation.

The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

(a) Topographic station Hope, 1951, was established during this survey. It was located by a theodolite three-point fix on triangulation stations.

Sta. HOPE, 1951, plots in T-9509, proj. PH-59(50).

FIELD INSPECTION REPORT
 Quadrangle T-9831
 Project H-72(51)

Harry T. Garber, Chief of Party

The field work for this quadrangle was done in accordance with instructions, dated 18 April 1951, Project H-72(51), under the direction of Joseph H. Wilson, Supervisor. Field work, in addition to those phases listed on page 2, was done by the following personnel:

Name and Title	Phase	Date
Leo T. Benneret	Horizontal Control	May, 1951
Cartographic Survey Aid	Recovery and Shovelings	

This report is written in accordance with Paragraph 7A of the Topographic Manual, Part II, dated 1949.

2. AREAL FIELD INSPECTION

The land area of the quadrangle comprises a narrow strip of barrier beach adjacent to the Atlantic Ocean. The sea side of the strip consists of shifting sand dunes partially brush-covered. The bay side of the strip is marshland.

The Borough of Avalon and parts of the Borough of Stone Harbor and Sea Isle City are within the quadrangle. These are unincorporated and are almost fully developed. The area is adequately served by hard-surfaced roads. There are no railroads within the quadrangle.

The photographs used were taken in 1950 and 1951 and 1952. That the marshland on the 1951 photographs was covered by considerably more water than in 1950. No difficulty, however, was encountered in their interpretation.

The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

(a) Topographic station Hope, 1951, was established during this survey. It was located by a theodolite three-point fix on triangulation stations.

Other BMs shown on this map
Ingram RV 2755

(b) All stations are on the N.A. 1927 datum.

(c) Control established by the N.J.G.C.S. was used along with that established by the U.S.C.&G.S. throughout the quadrangle.

Stations not established by the U.S.C.&G.S. are:

<u>Station</u>	<u>Agency</u>	<u>Order</u>	<u>Datum</u>
Mon. 5751	New Jersey Geodetic Survey	Third	N.A. 1927
" 5752	"	"	"
" 5753 <i>lost</i>	"	"	"
" 5754 <i>not shown</i>	"	"	"
" 5755	"	"	"
" 5756	"	"	"
" 5757 <i>lost</i>	"	"	"
" 5758 <i>lost</i>	"	"	"
" 5759	"	"	"
" 5760 <i>on T 8494</i>	"	"	"
" 5765	"	"	"
" 5766	"	"	"

(e) A search was made for all known horizontal control points. Stations reported as "lost" or "not recovered" are:

ERA, 1936	
Mon. 5753 (N.J.G.C.S.)	1938
" 5757	1938
" 5758	1938

4. VERTICAL CONTROL

A search was made for all known vertical control. Bench marks in the quadrangle which were used are:

<u>Name</u>	<u>Agency</u>	<u>Order</u>
RV 2755	New Jersey Geodetic Control Survey	Third
INGRAM	"	"
Mon. 5751	"	"
" 5752 <i>not shown</i>	"	"
" 5754	"	"
" 5755	"	"
" 5756	"	"
" 5759 <i>on T 8494</i>	"	"
" 5760	"	"
" 5765	"	"
" 5766	"	"

(b) A six mile fly level^{line} was run with a closure of 0.20 foot. The line was not adjusted.

(c) The first and last fly level points are 31-1 and 31-11.

(d) Inapplicable.

5. CONTOURS AND DRAINAGE

The contouring was done by planetable methods directly on single-lens photographs (1:10,000 scale), at a contour interval of ten (10) feet.

Along the barrier beach adjacent to the Atlantic Ocean, there is an area of many irregular sand dunes, which rise to a height of forty eight (48) feet. The remainder of the area is quite flat.

The natural drainage is by seepage into the sand ridge.

6. WOODLAND COVER

The cover was classified in accordance with Paragraph 5433 of the Topographic Manual, Part II, dated 1949.

Special attention is called to the growth of bushes which are found in the low ground areas. These bushes range from 3 to 6 feet in height and have been classified as "scrub" by the field inspector. They appear quite dark on the photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The greater part of the shoreline is apparent with the exception of that part along the Atlantic Ocean.

(a) No difficulty was encountered in the delineation of the mean high water line. This was done on the ocean side by means of visual inspection.

No attempt was made to delineate the mean high water line in its entirety, in the area of Townsends Inlet. This inlet changes rapidly and should be investigated by the field editor.

(b) The low water line was delineated along the ocean side. No attempt was made to locate the low-water line along the area west of the beach.

(c) The foreshore was classified as necessary on the photographs.

(d) Inapplicable.

(e) All docks, wharves, and piers not clearly discernible on the photographs have been delineated thereon.

(f) There are two ^{submerged} submarine cables in the quadrangle. These are shown on the photographs on the north side of the bridge over Ingram Thorofare, and on the west side of the bridge over Townsends Inlet.

8. OFFSHORE FEATURES

No offshore features were noted during the investigation.

9. LANDMARKS AND AIDS

(a) Two landmarks are recommended on Form 567 for charting. The flag tower at Avalon has been razed. Form 567 is incorporated within this report.

(c) There are no aeronautical aids within the quadrangle.

(d) There are no fixed aids to navigation within the quadrangle.

10. BOUNDARIES, MONUMENTS AND LINES

All boundary data for this quadrangle, with the exception of Sea Isle City and Middle Township, are included with this report. Legal descriptions of the Boroughs of Avalon and Stone Harbor are contained herein. These boundaries follow natural features and have been delineated in red on the photographs.

See "Special Boundary Report for Project Ph-59(50)", submitted by R. L. McGlinchey, Cartographic Survey Aid, dated September, 1950, for the legal descriptions of the boundaries of Sea Isle City and Middle Township. These limits have been delineated on photographs Nos. 50-0-718 and 50-0-773.

11. OTHER CONTROL

One topographic station, Hope, 1951, was established. See Heading No. 3, item (a) of this report. Five previously established topographic stations were searched for and are reported on Form 524.

12. OTHER INTERIOR FEATURES

All roads and buildings have been classified in accordance with Paragraph 5441 and 5446 of the Topographic Manual, Part II, dated 1949.

All bridge information as listed in the U.S. Engineers List of Bridges Over Navigable Waters in the U.S., dated 1941, and its Supplement, dated January 1, 1948 was verified in the field. All clearances were carefully measured with a steel tape and the published descriptions verified.

13. GEOGRAPHIC NAMES

The geographic name data for this quadrangle is incorporated within this report, with the exception of the features located from Townsends Inlet north, which are discussed in a "Special Names Report for Project Ph-59(50)", submitted by Merle W. Smith, on 6 November 1950. All other geographic names within the area have been carefully investigated in the field. All of the names relating to this quadrangle are names which have appeared on previous Federal

maps, and with the exception of three names, no discrepancies were found between the names on the U.S. Coast and Geodetic Survey charts and on other Federal maps of the area. These names have been shown in red on photographs Nos. 50-0-717 and 50-0-720 in their true locations.

(a) The following geographic names are undisputed:

AVALON
 CORNELL HARBOR
 EAST FORK
 INGRAM THOROFARE
 LEONARD THOROFARE
 LONG REACH
 LOWER LONG REACH
 NORTH CHANNEL
 OLDMAN CREEK
 PENNSYLVANIA HARBOR
 PRINCETON HARBOR
 SEVEN MILE BEACH
 SOUTH CHANNEL
 STITES SOUND
 STONE HARBOR

*Noted 9-4-51
 854 - L Heck*

(b) The following geographic names is disputed in local usage:

GRAVEN THOROFARE versus GRAVENS THOROFARE
 The possessive "s" is not widely used. The name GRAVEN THOROFARE is recommended.

(c) The following names have appeared on previous Federal maps and are recommended for deletion:

PEERMONT

This name has become obsolete. The area is now a part of the Borough of Avalon.

L.S. STATION TATHAM

This station has been razed.

(d) The following local residents were consulted in the investigation of the geographic names contained in this report, and have verified all names as shown in the previous paragraphs:

1. William W. Cherry
 Box 201
 Avalon, N. J.

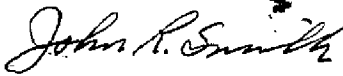
Bridge tender.
 Resident for
 28 years.

- | | |
|--|--|
| 2. Allison Ludlam
R.F.D. 1
Cape May Courthouse, N.J. | Retired Coast Guard man.
Resident for 68 years. |
| 3. Charles Clegg
General Delivery
Avalon, N. J. | Party boat operator.
Resident for 40
years. |
| 4. Horace E. Richardson
Stone Harbor, N. J. | Marine mechanic.
Resident for 54 years. |
| 5. J. C. Martin
Stone Harbor, N. J. | City councilman.
Resident for 32 years. |
| 6. Edward M. Cherry
Avalon, N. J. | Retired bridge tender.
Resident for 35 years. |

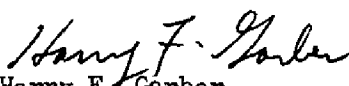
14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

A Coast Pilot Report for the project will be submitted at a later date. There are no other reports or special data.

11 June 1951
Submitted by:


John R. Smith
Cartographic Survey Aid

13 July 1951
Approved by:


Harry F. Garber
Commander, USC&GS
Chief of Party

BOROUGH OF AVALON

CAPE MAY COUNTY

STATE OF NEW JERSEY

CHAPTER 179

LAWS OF 1897

An Act to incorporate the borough of Avalon, in the county of Cape May, and fix the boundaries thereof:

Be it enacted by the Senate and General Assembly of the State of New Jersey:

1. The inhabitants of that portion of the county of Cape May, being a part of Leaming's or Seven-Mile Beach, hereinafter particularly described, are hereby constituted and declared to be a body corporate in fact and in law by the name of "The Borough of Avalon", and shall be governed by the general laws of this state relating to boroughs.

2. The boundaries of the said borough shall be as follows:

Beginning at a point where the southwesterly side of Ninth Street intersects the waters of Ingram's Thoroughfare; and thence extending southeasterly along the southwesterly side of Ninth Street, to the intersection of the said southwesterly side of Ninth Street with the northwesterly side of Fifth Avenue; thence southwesterly along the northwesterly side of Fifth Avenue to the intersection of the said northwesterly side of Fifth Avenue with the southwesterly side of Eleventh Street; thence southeasterly along the southwesterly side of Eleventh Street to the intersection of the said southwesterly side of Eleventh Street with the northwesterly side of Third Avenue; thence southwesterly along the northwesterly side of Third Avenue to the intersection of the said northwesterly side of Third Avenue with the southwesterly side of Fifty-fifth Street; thence southeasterly along the southwesterly side of Fifty-fifth Street to the intersection of the said southwesterly side of Fifty-fifth street with the northwesterly side of

Second Avenue; thence southwesterly along the northwesterly side of Second Avenue to the intersection of the said northwesterly side of Second Avenue with the southwesterly side of Eightieth Street; thence southeasterly along the southwesterly side of Eightieth Street to the Atlantic Ocean; thence following along the several courses and distances of the Atlantic Ocean, Townsend's Inlet, and Ingram's Thoroughfare, in northeasterly, northerly, northwesterly, westerly and southwesterly directions respectively to the place of beginning.

3. This act shall take effect immediately.

Approved May 4, 1897.

Compiler's Note:

The boundaries of The Borough of Avalon follow natural features and are outlined on Photographs 50-0-718 and 50-0-773. A small scale map of the Borough of Avalon is submitted with the quadrangle data.

*filed in
Ph 72 map
folder*

BOROUGH OF STONE HARBOR

CAPE MAY COUNTY

STATE OF NEW JERSEY

CHAPTER 156

LAWS OF 1914

An act to incorporate the Borough of Stone Harbor in the county of Cape May.

Be it enacted by the Senate and General Assembly of the State of New Jersey.

1 - The inhabitants of all that portion of the island known as Seven Mile Beach, in the Township of Middle, in the County of Cape May and the State of New Jersey, hereinafter set forth, are hereby constituted and declared to be a body corporate in fact and in law, by the name of "The Borough of Stone Harbor" and shall be governed by the laws of this State relating to boroughs.

2.- The boundaries of said borough shall be as follows:

All that portion of the island known as Seven Mile Beach, in Middle Township, Cape May County, which lies southwesterly from the southwest line of the Borough of Avalon; Beginning at a point in the middle of Great Channel where the same is intersected by the southwest line of Eightieth Street in the Borough of Avalon and extending thence (1) southwesterly along the middle of Great Channel, the several courses and distances thereof, to the middle of Hereford Inlet; (2) southeasterly along the middle of Hereford Inlet, the several courses and distances thereof, to its intersection with the limits of the jurisdiction of the State of New Jersey in the Atlantic Ocean; (3) northeasterly in the Atlantic Ocean and along the limits of the jurisdiction of the State of New Jersey in said ocean, to the extended southwest line of said Eightieth Street; (4) northwesterly along the southwest line of Eightieth Street and extensions thereof, it being the southwest boundary of the Borough of Avalon, to the place of beginning.

Compiler's Note:

That portion of the boundary of the Borough of Stone Harbor, that lies within the limits of quadrangle T-9831, Project Ph-72(51), is shown on photograph 50-0-718. No map of the Borough of Stone Harbor was available.

ORDINANCE NO. 177

AN ORDINANCE accepting and annexing to the Borough of Stone Harbor the southwesterly half of Eightieth Street, now in the Borough of Avalon.

WHEREAS, by authority of the Legislature of the State of New Jersey, as enacted in the Laws of 1939, Chapter 46, being Section 40: 43-39.1, that a street wholly within one municipality adjoining another municipality, such municipality is authorized to annex the half of said street to the adjoining municipality; and the adjoining municipality may annex the adjoining half of the same; therefore

The Council of the Borough of Stone Harbor does ordain:

Section 1. The following hereinafter described southwesterly half of Eightieth Street, now in the Borough of Avalon is hereby accepted and annexed to the Borough of Stone Harbor, as follows:

BEGINNING as a point in the middle of Great Channel where the same is intersected by the southwest line of Eightieth Street in the Borough of Avalon; and extending thence (1) northeasterly along the middle of said Great Channel thirty feet, more or less; to a point where the middle of said Eightieth Street, extended northwesterly, would intersect with said line; and thence (2) southeasterly along the said center line of said Eightieth Street (60 feet in width) and extensions thereof to its intersection with the limit of the jurisdiction of the State of New Jersey in the Atlantic Ocean; and thence (3) southwesterly along the said Atlantic Ocean thirty feet, more or less, to where the southwest line of Eightieth Street and extensions thereof intersects with said Atlantic Ocean; and thence (4) northwesterly along the southwest line of said Eightieth Street and extensions thereof to the place of beginning. BEING the southwesterly half of said Eightieth Street now in the Borough of Avalon.

Section 2. This Ordinance shall take effect on its final passage and legal publication.

Adopted: December 27th, 1941

Attest: J. N. Alexander,
Borough Clerk

John R. Biggs,
Mayor

I, J. N. Alexander, Clerk of the Borough of Stone Harbor, New Jersey, do hereby certify that the above Ordinance No. 177, is a true copy of an Ordinance adopted by the Mayor and Council of the Borough of Stone Harbor, N. J. at an adjourned meeting held on December 27th, 1941.

J. N. Alexander,
Borough Clerk

BOROUGH OF AVALON

CAPE MAY COUNTY

STATE OF NEW JERSEY

CHAPTER 221

LAWS OF 1910

An Act to extend the territorial boundaries of the Borough of Avalon, in the county of Cape May, by the annexation of a portion of the township of Middle, in said county.

BE IT ENACTED by the Senate and General Assembly of the State of New Jersey:

1. All that portion of Middle Township, in the county of Cape May, in the State of New Jersey, beginning at a point in the present line of the borough of Avalon, in the southwest line of Ninth street, at the intersection of the same with the high-water line of Ingram's Thorofare, and extending thence southwesterly along the several courses of said Ingram's Thorofare, Graven's Thorofare, Long Reach, Old Turtle Thorofare, Great Sound and Great Channel, respectively, to the intersection of the same with the southwest line of Eightieth street, if extended; (2) southeasterly, along the southwest line of Eightieth street, fourteen hundred feet, more or less, to the northwest line of Second avenue and a corner in the present borough line; (3) northeasterly, along the northwest line of Second avenue and in the line of the borough of Avalon as it now exist, seven thousand feet to the southwest line of Fifty-fifth street; (4) northwesterly, along the southwest line of Fifty-fifth street, six hundred and ninety feet to the Northwest line of Third avenue; (5) northeasterly, along the northwest line of Third avenue, twelve thousand and seven hundred feet to the southwest line of Eleventh street; (6) northwesterly, along the southwest line of Eleventh street, thirteen hundred and eighty feet to the northwest line of Fifth avenue; (7) northeasterly, along the northwest line of Fifth avenue, five hundred and sixty feet to the southwest line of Ninth street; (8) northwesterly, still in the present line of the borough of Avalon, and in the

southwest line of Ninth street, sixteen hundred and eighty feet, more or less, to the place of beginning, be separated from the said township of Middle and annexed to the said Borough of Avalon, so that the same shall be hereafter a part of and within the territorial limits of said borough of Avalon..

2..This act shall take effect immediately.

Approved April 9, 1910

FORMS SUBMITTED WITH QUADRANGLE T-9831

Form 24A

Hope, 1951

Form 251

Hope, 1951

Form 470

Hope, 1951

*included with data for T-9509,
RH-59(50)*

Form 524

Avalon Az. Mark, ⁽¹⁹³²⁾ 1951
Avalon Coast Guard Cupola, 1936
Avalon Coast Guard Flag Tower, 1936
- Church Spire, 1937
- Holiday Az. Mark, ⁽¹⁹³²⁾ 1951
Hope, 1951
Joy, 1937
N. E. Chimney YMCA Cottage, 1937

Form 526

Cape May Courthouse Water Tank, 1932
Channel, 1932
Holiday, 1932
Mon. 5751, 1938
" 5752 "
" 5753 "
" 5754 "
" 5755 "
" 5756 "
" 5757 "
" 5758 "
" 5759 "
" 5760 "
" 5761 "
" 5765 "
" 5766 "
Reach, 1936
Stone Harbor Standpipe, 1928

Form 567

Avalon Coast Guard Cupola
Avalon Coast Guard Flag Pole
Avalon Standpipe

Form 634

1 Wye Level Volume

Form 685-A

INGRAM

Mon. 2751

" 2752

RV 2754

" 2755

Townsend Inlet TBM No. 1

" " " " 2

" " " " 3

Form M-2226-12

Avalon Standpipe, 1928

Sub Pt. Channel, 1932

" " Hope, 1951

" " Ingram R.M. 1, 1936

" " Reach, 1936

" " Stites, 1936

Photo Pt. A to Locate Avalon Coast Guard Cupola

MAP T. 9831 PROJECT NO. Ph-72 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)	FORWARD	(BACK)	
INGRAM, 1936	G-3175 P.350	N.A. 1927	39 06 33.070 74 43 52.077			1019.8 (830.5) 1275.3 (166.3)		
Sub Pt INGRAM RM 1, 1936		"	39 06 74 43			893.1 (951.2) 1272.4 (169.2)		
AVALON, 1932	G-1249 P.144	"	39 06 22.519 74 42 50.779			694.4 (1155.9) 1220.1 (221.6)		
AVALON, STANDPIPE, 1928	G-1447 P.25	"	39 06 22.554 74 42 49.631			695.5 (1154.8) 1192.5 (249.1)		
REACH, 1936	G-3175 P.350	"	39 05 24.778 74 44 57.961			764.1 (1086.1) 1393.0 (49.0)		
Sub Pt REACH, 1936		"	39 05 74 44			523.5 (1326.7) 1393.3 (48.7)		
HOLIDAY, 1932	G-1447 P.25	"	39 04 24.792 74 44 33.089			764.5 (1085.7) 795.4 (646.9)		
Sub Pt CHANNEL, 1932		"	39 03 74 46			1253.1 (597.1) 678.4 (764.2)		
MON. 5751 NJGCS, 1938	NJGCS	N.A. 1927	98,059.86 1,984,667.55			932.6 (591.4) 1422.7 (101.3)		
MON. 5752 NJGCS, 1938	"	"	96,866.00 1,983,955.33			568.8 (955.2) 1205.6 (318.4)		
MON. 5754 NJGCS, 1938	"	"	No position available.					Page 20
MON 5755 NJGCS, 1938	"	"	92,385.64 1,980,959.24			727.1 (796.9) 292.4 (1231.6)		

COMPILATION REPORT

PH-72(51)

T-9831(N)

The photogrammetric plot report for this manuscript is part of the descriptive report for Survey No. T-9506, PH-59(50)

31. DELINEATION

This manuscript was delineated by graphic methods

32. CONTROL

Horizontal control was adequate.

33. SUPPLEMENTAL DATA

Geographic name standard dated 4 September 1951 on Army Map Service, Sea Isle City, N. J. quadrangle furnished by the Washington Office.

Building Zone Map of the Borough of Avalon.

Oil company road map of New Jersey.

Special report on Boundaries, New Jersey, submitted for project Ph-59(50)

34. CONTOURS AND DRAINAGE

No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The MHW line in the area of Townsend Inlet is subject to rapid change and remains to be investigated by the field edit party.

The low water line along the ocean was furnished by the field party. In the area inside of Townsend Inlet, the low water line was delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Forms 567 are being submitted for one landmark to be deleted and two landmarks to be charted in the area of this survey.

38. CONTROL FOR FUTURE SURVEYS

Seven forms 524 are being submitted with this report. Five of these are for previously established stations two of which were not recovered.

These stations are listed in item 49.

39. JUNCTIONS

The junction to the north with Survey No. T-9509, Ph-59(50) has been made and is in agreement. There is no contemporary survey to the east, south or west.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41-45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Survey No. 9831(N) has been compared with the Army Map Service, Sea Isle City, N. J. quadrangle, scale 1:50,000, dated 1948, and with the U. S. C. & G. S. topographic maps T-5645 (1936) and T-5646(1936).

47. COMPARISON WITH NAUTICAL CHARTS

This manuscript was compared with chart No. 827, scale 1:40,000, dated July 1951, corrected to 13 August 1951.

Items to be applied to nautical charts

None.

Items to be carried forward

None.

Approved and forwarded

Hubert A. Paton
Hubert A. Paton,
Comdr., C&GS
Officer in Charge

Respectfully submitted

Carolyn M. Kable
Carolyn M. Kable
Carto. Photo. Aid

48.

GEOGRAPHIC NAMES

Avalon

Avalon Blvd.

Atlantic Ocean

Cornell Harbor

Cape May County

East Fork Oldman Creek

Graven Thorofare

Ingram Thorofare

Intracoastal Waterway

Leonard Thorofare

Long Reach

Lower Long Reach

North Channel

New Jersey

Ocean Drive

Pennsylvania Harbor

Princeton Harbor

Seven Mile Beach

South Channel

Stites Sound

Stone Harbor

Borough of Stone Harbor

Borough of Avalon

Dennis Township

Middle Township.

Sea Isle City

Townsend Inlet

Townsend's Inlet (Town)

Names approved 2-16-53
L. HECK

49. NOTES FOR THE HYDROGRAPHER

The following are the recoverable photo stations in the area of this survey:

HOLIDAY AZ MK (1932) 1951

AVALON AZ MK (1932) 1951

CHURCH SPIRE (1937) 1951

AVALON COAST GUARD CUPOLA (1936) 1951

NE CHIMNEY YMCA COTTAGE (1937) 19 51

shown as "CUPOLA 1953"

NOTES TO REVIEWER

T-9831(N)

The boundary of the Boro of Avalon as it is shown along the high water line was delineated from the boundary data attached to the field report. The placement of this line is not consistent with the placement of other boundary lines of similar nature in the remainder of the area (Ph-59) and should be investigated. Field photographs 50-0-718 and 50-0-773 shows the line in the middle of the various channels; also a suggestion that the boundary runs in the middle of the channels is indicated in Ordinance No. 177 (p 16 field report). The boundary junction between Sea Isle City, Boro of Avalon and Middle Township at Townsend Inlet should also be clarified.

The symbol for TREES has been delineated on the manuscript in those areas indicated by the field inspection as SCRUB. This is not as prescribed by the Topo Manual but has been approved by H. R. Brooks (W. O. Review).

Topo Station HOPE, 1951 mentioned in item No. 3 of this field report falls on T-9509(S) PH-59(50).

PHOTOGRAMMETRIC OFFICE REVIEW

T-9831

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations Done 8. Bench marks ✓
9. Plotting of sextant fixes Done 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Reefs, shoals, etc. ✓ 15. Bridges ✓ 16. Aids to navigation Done 17. Landmarks ✓ 18. Other alongshore physical features ✓ 19. Other along-shore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Planetable contours ✓ 23. Stereoscopic instrument contours Done 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features ✓

CULTURAL FEATURES

27. Roads ✓ 28. Buildings ✓ 29. Railroads None 30. Other cultural features ✓

BOUNDARIES

31. Boundary lines ✓ 32. Public land lines None

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay ✓ 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓
40. _____

Reviewer

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

M-2623-12

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED

STRIKE OUT ONE

LANDMARKS FOR CHARTS

Toms River, New Jersey

9 May, 1951

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on ~~(some of them)~~ the charts indicated.

The positions given have been checked after listing by

Harvy P. Carber

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be considered for the charts of the area and not by

TO BE DELETED

Toms River, New Jersey 9 May 1951

KNOWLEDGE OF OUR LANDMARKS FOR CHARTS

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

The positions given have been checked after listing by
(derived from) the charts indicated.

Harry F. Garber

Commander, USC&GS, Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be reprinted on this form. The data should be considered for the charts of the area and not by the chart of the area.

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

**ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 06-07-2007 BY 60322 UCBAW**

STRIKE OUT ONE

Toms River, New Jersey

6 May

105

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

The positions given have been checked after listing by James E. Hundley

Jack C. Sammons

Chief of Party

[illegible]

FIELD EDIT REPORT
Project Ph-72(51)

Quadrangle T-9831 $\frac{N}{2}$

51. METHODS

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection. Actual field work was completed 4 May 1953.

Field edit data appears on the field edit sheet, discrepancy print, field photographs, 50-0-773, 51-0-1693, 1696 and in this report.

The reviewer's questions are answered on the discrepancy print when feasible.

A legend appears on the field edit sheet, which is self-explanatory.

52. ADEQUACY OF COMPILATION

The map compilation, in general, is adequate but in a few areas conjectural.

These conjectural areas have been resolved (see notes) on the field edit sheet.

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good, with those exceptions mentioned in item "52".

The accuracy of the contouring is good.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

It is believed that the Engineering Company of Sherman, Sleeper & Taylor, 501 Cooper St., Camden, N. J., Civil Engineers for the Borough of Barnegat Light, is best qualified to examine a proof copy of this work.

56. AREAL FIELD INSPECTION

Refer to item 2, Par. 1, - Field Inspection Report.

There are no shifting sand dunes in this area. According to local information a hurricane hit this area, in 1949, and blew the tops off the highest dunes, but, since that date no appreciable change has occurred.

57. WOODLAND COVER

Refer to item 6, Field Inspection Report.

The majority of the woodland cover in this area has been re-classified on the field edit sheet. The cover consists of low bushes with a few trees scattered throughout.

58. SHORELINE AND ALONGSHORE FEATURES

Refer to item 7, Field Inspection Report.

The corrected MHWL, Atlantic Ocean and Townsend's Inlet, was located by planetable methods on the field edit sheet. The approximate MLWL, for these areas, has been shown on the field edit sheet.

The corrected position of the submarine cable west of bridge spanning Townsend's Inlet has been shown on the field edit sheet. An additional submarine cable on east side of same bridge has been properly located on the field edit sheet.

59. LANDMARKS

Refer to item 9, Field Inspection Report.

The only prominent object, suitable as a landmark, in this area is Avalon Standpipe.

Recommend that Avalon Coast Guard Cupola be deleted. Form 567 is submitted.

60. OTHER INTERIOR FEATURES

Refer to item 12, Field Inspection Report.

Numerous additional buildings and a few new streets, mostly dead end, have been shown on the field edit sheet.

60A. BOUNDARIES

Refer to pages 13 and 18 - Field Inspection Report.

1. Borough of Avalon - According to information obtained from Cape May County and Avalon Borough officials, all that part of the Borough of Avalon that follows natural features, Atlantic Ocean - Townsend's Inlet - Ingram Thorofare - Graven Thorofare, goes to MHW.

60A. BOUNDARIES (cont'd)

2. Dennis Township - Middle Township - According to information obtained from Cape May County officials, the dividing line between these townships in this area is the middle of Townsend's Inlet, thence in a northwesterly direction to the middle of Middle Thorofare, etc.

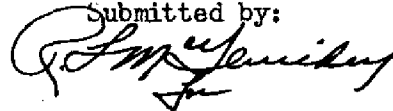
3. Borough of Sea Isle City - According to information obtained from Cape May County officials, that part of the Borough of Sea Isle City that falls within this area has as its boundary the following limits: Mean highwater of Atlantic Ocean and Townsend's Inlet.

60B. JUNCTIONS

The junctions with contemporary surveys on the north, west and south were not checked as these adjacent surveys were not available in the field. The Atlantic Ocean is on the east.

6 May 1953

Submitted by:



James E. Hundley
Cartographer

Summary to Accompany Descriptive Report

T-9831

Topographic Map T-9831 is one of 6 similar maps in project Ph-72(51). This project covers the New Jersey coast from latitude $39^{\circ} 45'$ near Barnegat Inlet, northerly to latitude $40^{\circ} 07' 30''$ near Manasquan Inlet, and also a small area in the vicinity of Avalon (latitude $39^{\circ} 06'$). This map was compiled by graphic methods. The field operations prior to compilation included complete field inspection, supplemental leveling and planetable contouring. The compilation was at a scale of 1:10,000. The manuscript is in one sheet, 3.75' in latitude and 7.5' in longitude. This map was field edited and is to be published by the Geological Survey at a scale of 1:24,000 as a standard 7.5-minute topographic quadrangle. All land area is mapped on the north half of the quadrangle. A projection on vinylite of the south half of the quadrangle was used for application of hydrography. The registered copies under T-9831 will include 1 one-half quadrangle cloth-mounted print at scale 1:10,000 designated as T-9831N, and a complete 7.5-minute quadrangle cloth-mounted print in color at scale 1:24,000. Hydrographic data furnished by this Bureau, including depth curves and soundings, will be shown on the color print.

Review Report
Topographic Map T-9831
10 August 1954

62. Comparison with Registered Topographic Surveys:

T-147	1:10,000	1842
1597	1:20,000	1883
2452	"	1899
2453	"	"
5645	1:10,000	1932
5646	"	"

By comparison with the more recent of the above surveys, considerable shifting of shoreline has occurred in Townsends Inlet and along the outside beaches.

63. Comparison with Maps of Other Agencies:

Sea Isle City, New Jersey, AMS, 1:50,000, dated 1948, 15' quadrangle.

64. Comparison with Prior Hydrographic Surveys:

H-6231	1:10,000	1937
6227	1:20,000	1940

There is no conflict between soundings on above surveys and shoreline of T-9831, except in Townsends Inlet.

65. Comparison with Nautical Charts:

827 - Intracoastal waterway, 1:40,000, 1951, last correction dated 7/5/54.

The shoreline changes noted under 62 are not reflected on the subject chart. Bridge clearances are in agreement except the vertical clearances shown for the 2 fixed bridges in the vicinity of Pennsylvania and Princeton Harbours.

66. Accuracy of Results and Future Surveys:

This map complies with all instructions and is adequate as a base for hydrographic surveys and the construction of nautical charts. This map complies with the National Map Accuracy Standards.

67. Junctions:

Shoreline along the ocean does not junction with T-9509. Location of shoreline at this junction on T-9831 has been corrected to May 1953. The difference is due to storm action that occurred between the dates of the surveys.

Reviewed by:

John M. Neal
John M. Neal

APPROVED:

LC Lande
Chief, Review Section
Photogrammetry Division

RL Swanson
Chief, Photogrammetry Division

6 Nov. 59

W. B. Kelts
Chief, Nautical Chart Branch
Charts Division

W. B. Kelts
Chief, Coastal Surveys Division

Ph-72
Application of Hydrography

<u>Manuscript</u>	<u>Source</u>	<u>Date Applied</u>	<u>Date Verified</u>
T-9843 N	Chart 795 " 824 H-6190	1:40,000 1936	Sept. '54 Dec. '54
T-9843 S	Chart 825 H-5615 6136 6188 6190	1:10,000 1:20,000 1:40,000 1:40,000	1934 1936 1936 1936
T-9828 N	Chart 825 H-6136 6188	1:20,000 1:40,000	1936 1936
T-9828 S	Chart 825 H-6188	1:40,000	1936
T-9830 N	Chart 825 H-6136 6188	1:20,000 1:40,000	1936 1936
T-9830 S	Chart 1216 Chart 825 H-6136 6141 6188 6271	1:20,000 1:10,000 1:40,000 1:40,000	1936 1935 1936 1937
T-9827 N	Chart 825		Dec. '54 Dec. '54
T-9827 S	Chart 825		" "
T-9829 N	Chart 825		Sept. '54 Dec. '54
T-9829 S	Chart 825		" "
T-9831 N	Chart 827 Chart 1217 H-6227 H-6264	1:20,000 1:40,000	1937 1937
T-9831 S	Chart 1217 H-4821 H-6227 H-6264	1:20,000 1:20,000 1:40,000	1928 1937 1937

Hydrography for entire project was compiled by John M. Neal and verified by O. Svendsen. All soundings are in feet at mean low water. The 6, 12, 18, 30 and 60-foot depth curves are shown.

John M. Neal

Date _____

O. Svendsen

Date _____

NAUTICAL CHARTS BRANCH

SURVEY NO. T-9831

Record of Application to Charts

[illegible]

M-2169-1

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.