11444E&W
COMBINED

Diag. Cht. Nos. 1211-2 and 1212-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-142 Office No. T-11444 E&W

LOCALITY

State Connecticut

General locality Long Island Sound

Locality Niantic River

1954

CHIEF OF PARTY

L.F.Woodcock, Chief of Field Party
J.E.Waugh, Tampa District Office

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11444E&W
COMBINED

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-11444 E & W

Project No. (II): 27300 Quadrangle Name (IV):

Field Office (II): Groton, Conn. Chief of Party: L. F. Woodcock

Photogrammetric Office (III): Tampa, Fla. Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III): 8 June 1954
Suppl. 1dtd 15 July 1954
Suppl.2dtd 6 Aug. 1954
Suppl.3dtd 18 Aug. 1954

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): 1:4,000

Scale Factor (III): Pantograph to 1:10,000

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): Sept 1960

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III): MHW

~~[illegible]~~ 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): MC LERNON, 1934

Lat.: 41°20'33".963 (1047.8m) Long.: 72°10'32".331 (751.7m) Adjusted ~~[illegible]~~

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.

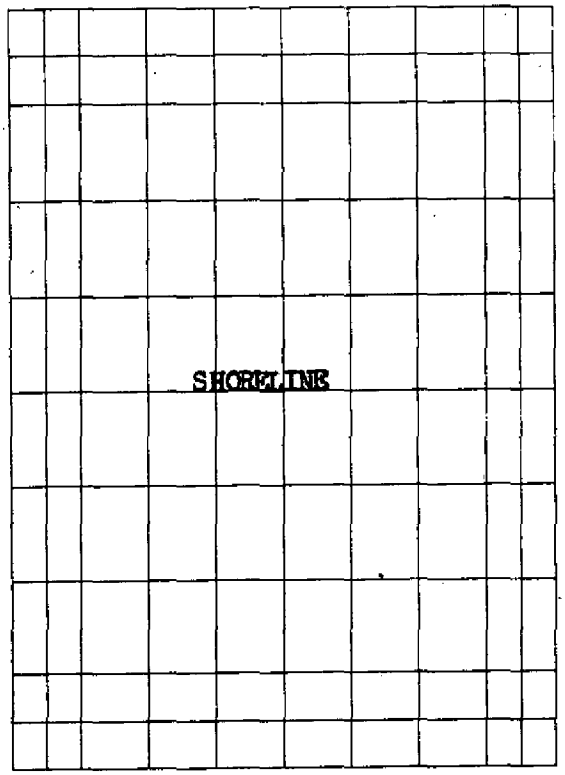
When entering names of personnel on this record give the surname and initials, not initials only.

COMM-DC-57842

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



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

FORM 181b
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

3

Field Inspection by (II): W. M. Reynolds — Date: Sept-Oct 1954

Planetable contouring by (II): Inapplicable — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location): Oct. 1954 Air Photo Compilation

Projection and Grids ruled by (IV): — Date:

Projection and Grids checked by (IV): — Date:

Control plotted by (III): Washington Office — Date:

Control checked by (III): M. M. Slavney, R. E. Smith — Date: Feb. 1957

~~[illegible]~~ Stereoscopic Control extension by (III): Washington Office — Date:

Stereoscopic Instrument compilation (III): Planimetry R. E. Smith — Date: March 1957

~~Contours~~ — Date:

Manuscript delineated by (III): R. E. Smith — Date: April 1957

Photogrammetric Office Review by (III): M. M. Slavney — Date: May 1957

Elevations on Manuscript checked by (II) (III): Inapplicable — Date:

COMM-DC-57842

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

4.

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Wild and C&GS 9-lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
54W 815	22 Apr. 1954	15:50	1:20,000	+ 1.1
" 816	"	15:51	"	"
" 817	"	15:51	"	"
" 818	"	15:51	"	"
" 819	"	15:52	"	"
" 820	"	15:52	"	"
" 835	"	16:00	"	"
" 836	"	16:00	"	"
" 837	"	16:01	"	"
" 838	"	16:01	"	"
" 839	"	16:01	"	"
" 840	"	16:02	"	"
9-lens 43836	30 Apr. 1954	12:35	1:10,000	0.0
43837	"	12:36	"	"

Tide (III)

Predicted

Ratio of Ranges	Mean Range	Spring Range
--	2.6	3.1
--	2.7	3.2

Reference Station: New London
Subordinate Station: Millstone Point
Subordinate Station:

Washington Office Review by (IV): D. C. Fitzwood Date: 13 Sept. 1960

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

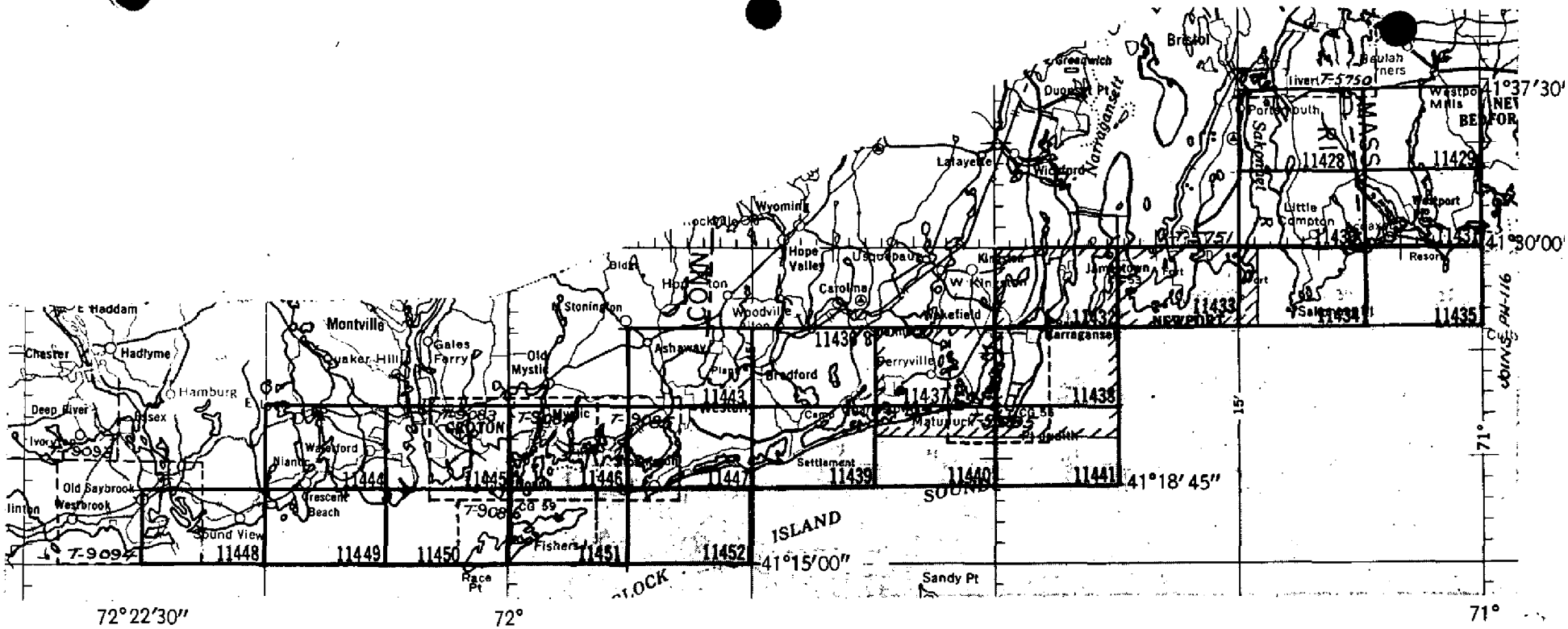
Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 25
Shoreline (More than 200 meters to opposite shore) (III): 27
Shoreline (Less than 200 meters to opposite shore) (III): 8
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 74 Recovered: 48 Identified: 26
Number of BMs searched for (II): 3 Recovered: 0 Identified: 0
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

COMM-DC-57842

Block Island Sd., R.I. to Conn. River, Conn.



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LIN.MI. SHORELINE	AREA SQ.MILES
11428	12	23
11429	10	26
11430	10	24
11431	35	22
11432	27	17
11433	26	7
11434	17	8
11435	4	1
11436	10	16
11437	22	25
11438	11	9
11439	25	13
11440	8	2
11441	3	1
11443	8	9
11444	35	25
11445	43	24
11446	40	15
11447	28	22
11448	30	8
11449	20	4
11450	8	3
11451	14	3
11452	4	1
TOTALS	450	308

----- Indicates shoreline revision

Topographic revision

SUMMARY
PROJECT PH 142
TWENTY-FOUR

This project consists of 3 3/4' X 7½', 1:10,000 scale shoreline maps. Three manuscripts T-11444, T-11448 and T-11449 were compiled by the Tampa District Office. The remainder were compiled by the Baltimore District Office.

The objective of the project was to provide shoreline and horizontal control data for contemporary hydrographic surveys and base maps for nautical charts.

It extends from the New Bedford, Connecticut area west to Old Saybrook along Block Island Sound and includes parts of Massachusetts, Rhode Island, and Connecticut.

Aerial photography was taken in the spring of 1954 with the "W" camera at 1:20,000 scale and supplemental nine-lens at 1:10,000 at low water. Some additional photography was flown in May 1956 for revision purposes.

Control was extended by stereoplanigraph and multiplex methods. Compilation was accomplished by Kelsh.

More stations were identified than necessary for this project. This was due to the fact that the original intentions were to extend horizontal control by radial line plot methods. Subsequent purchase of an additional first order bridging instrument reduced the need for the density of control. This item is the subject of supplemental instructions dated 15 September 1955, Paragraph 5. The field phase of control identification was initiated in June 1954.

The project is classified as Shoreline yet instructions to the field dated 8 June 1954, Paragraph 9 "Interior Inspection" states "the inland limits of inspection and delineation are the map limits".

Five contemporary hydrographic surveys dated 1956-57 have been completed in this area by visual hydrographic methods.

~~All~~ The sheets ~~were~~ was scribed and transmitted to the Washington Office by Tampa District Office

Final Review was completed by April 1960.

Submitted by:

A. K. Heywood

A. K. Heywood

2. AREAL FIELD INSPECTION

This shoreline sheet is located in southern Connecticut and just north of the mouth of the Niantic River.

The river crosses the sheet in a north to south direction. The town of Niantic is located near the center of the area. Several small boat yards are located here but as a whole the tourist trade is the predominate industry.

Immediately north of Niantic is a large area of dense trees. The nature of the area being a series of high ridges and draws.

The entire area is traversed by a good system of hard surfaced roads and by the New York, New Haven and Hartford Railroad.

Field inspection is believed complete and was performed on the following photographs: 54-W-815 through 54-W-820, 54-W-835 through 54-W-840, 54-W-757 and 54-W-758, and DPE-5H-94.

The photography was of recent date and of good quality. No difficulty was encountered in their interpretation in the field.

No items were deliberately left for the field editor.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control was searched for. The density of the control made it unnecessary to identify all control recovered. Stations were identified at approximate one-half mile interval, with particular attention given to those stations in overlap areas and farthest from the flight line.

The following third-order traverse stations, established by the Connecticut Geodetic Survey were recovered and identified: 368, 388, 575 and 980.

The following stations were reported lost: CRESCENT BEACH DANCE HALL TOWER 1934; CRESCENT BEACH PIER FLAGPOLE 1934; OLD HOSPITAL FIRE ESCAPE 1934; STATE FARM CHIMNEY 1934; STATE FARM ELEVATED TANK 1934; STATE FARM WINDMILL 1934; NIANTIC SPIRE 1882; CAMP CROSS HOUSE CHIMNEY 1934; PINE GROVE FLAGPOLE 1934; PINE GROVE CASINO 1934; STONE DOCK 1934; MACHOL 1934; RIVERSIDE BEACH FLAGPOLE 1934; TITUS SILO 1934; TITUS 1934; BOB WHITE CHIMNEY 1934; BARN CUPOLA 1882; CONSTANTINE 1934; NIANTIC 1934; INDIAN 1934; NEW LONDON COUNTRY CLUB FLAGPOLE 1932; WILLIAM'S BARN 1934.

STATE FARM WINDMILL 1934 was reported lost but the foundation was identified in lieu of the station.

4. VERTICAL CONTROL

Three tidal bench marks in the vicinity of Niantic were searched for but none were recovered.

5. CONTOURS AND DRAINAGE

No contouring was required for this project.

The drainage was field inspected and where not self-evident on the photographs, has been indicated.

All swamp limits have been indicated on the photographs.

6. WOODLAND COVER

Woodland cover was field inspected and has been classified in accordance with paragraph 5433 of the Topographic Manual.

Some of the black mottled tones which appear as swamp are definitely not swamp. It is believed that a change in foliage accounts for the tone, rather than a change in the characteristic of the land.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was field inspected and has been indicated by symbol, at intervals, on the photographs.

The area could not be conveniently visited at low water.

The foreshore is principally the banks of the Niantic River and there is little or no difference in the location of the mean high water line and mean low water line.

Where bluffs or cliffs exist, they have been indicated on the photographs.

The cable area shown on Chart 214 could neither be confirmed or denied. The cables probably are in place but no evidence remains along the banks.

All other shoreline structures consist of bulkheads and groins. These have been indicated on the photographs.

8. OFFSHORE FEATURES

The only offshore features are rocks. These rocks were visited by skiff and their heights above water, at the time, have been indicated on the photographs.

9. LANDMARKS AND AIDS

All landmarks for nautical charts are adequately covered by the photographs and Form 567.

10. BOUNDARIES, MONUMENTS AND LINES

Parts of the boundary of Rocky Neck State Park are located within this sheet. The limits have been indicated on the photographs, from information obtained from the park ranger.

The limits of the Connecticut State Prison and Farm For Women have been indicated on the photographs from information obtained from Mr. Elliot, Chief Engineer of the institution. These limits are definite, only where they follow the roads. The eastern limits are very indefinite and could not be indicated. There is no legal description of the boundaries and the boundary was not monumented.

11. OTHER CONTROL

None was established.

12. OTHER INTERIOR FEATURES

All roads were field inspected and have been classified in accordance with paragraph 17 of the project instructions.

All buildings were field inspected and classified in accordance with the project instructions and Supplement 3 of the Project Instructions.

Horizontal and vertical clearances for bridges were determined as follows:

Bridge	Type	Hor.Cl.	Vert.Cl.	Time	Date
NY,NH,& HART.RR	Bascule	45 ft.	11.5 ft.	1360 EST	9/29/54
Conn.Hwy.No.156	Swing	65 ft.	10.0 ft.	1400 EST	10/6/54
U.S.Hwy 1A	Fixed	56.5 ft.	4.5 ft.	1500 EST	10/6/54

The horizontal clearances check those as published in the bridge book.

Two sod landing fields for small, light aircraft are located in the area. The limits of these fields have been indicated on photographs 54-W-757 and 54-W-839.

13. GEOGRAPHIC NAMES

Special Report, Geographic Names, Project Ph-142.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special Report, Geographic Names, Project Ph-142, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-142-4, Form 567, Landmarks for Charts, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-142-27, Map T-11444, to be forwarded to Washington Office OCT 27 1954

Letter of Transmittal No. Ph-142-28, Data, Map T-11449 forwarded to Washington Office OCT 27 1954

Submitted
26 October 1954

William M. Reynolds
William M. Reynolds
Carto.Survey Aid

Approved & Forwarded

OCT 27 1954

Lorin F. Woodcock
Lorin F. Woodcock
Chief of Party

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-11444 PROJECT NO. Ph-142 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 FORWARD (BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
368 (CGS) 1937	Photo-stat	N. A. 1927	Y= 177,445.59	2,446 (2,554)			
			X= 742,537.82	2,538 (2,462)			
SS 368 (CGS), 1937 ~~RM-1~~	"	"	Y= 177,477.16	2,477 (2,523)			
			X= 742,598.61	2,598 (2,402)			
388 (CGS), 1937	"	"	Y= 185,341.03	341 (4,659)			
			X= 767,466.52	2,467 (2,533)			
SS 388 (CGS), 1937 RM 2	"	"	Y= 185,358	358 (4,642)			
			X= 767,509	2,509 (2,491)			
575 (CGS), 1937	"	"	Y= 175,670.12	670 (4,330)			
			X= 769,464.47	4,464 (536)			
SS 575 (CGS), 1937, ~~RM-1~~	"	"	Y= 175,542	542 (4,458)			
			X= 769,409	4,408.9 (591.1)			
980 (CGS), 1937	"	"	Y= 183,549.58	3,550 (1,450)			
			X= 764,060.72	4,061 (939)			
SS 980 (CGS), 1937	"	"	Y= 183,536	3,536 (1,464)			
			X= 764,039	4,039 (961)			
AVERY, 1934	P. 37 Conn.	"	41 21 49.447			1525.4 (325.6)	
			72 11 27.149			631.0 (763.6)	
SS AVERY, 1934	Comp.	"	41 21			1512.4 (338.6)	
			72 11			543.6 (851.0	
BERGGREN CHIMNEY, 1934	P.44 Conn.	"	41 19 49.533			1528.1 (322.9)	
			72 10 21.463			499.2 (896.1)	
BIESHEIM'S CHIMNEY 1934	P. 45 Conn.	"	41 20 51.644			1593.2 (257.8)	
			72 11 00.887			20.6 (1374.3)	

1 FT.=.3048006 METER

COMPUTED BY: J. B. McDonald DATE 3 Nov. 1955 CHECKED BY: M. M. Slavney DATE Aug. 1956

COMM-DC-5784

Photogrammetry

MAP T- 11444 PROJECT NO. Ph-142 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 FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
BISHOP'S BAY, FLAGPOLE, 1934	P.46	N.A.	41 20 37.749				1164.6	(686.4)		
	Conn.	1927	72 11 23.697				551.0	(844.0		
BRANIER'S CHIMNEY, 1934	"	"	41 20 57.324				1768.4	(82.6)		
			72 11 09.654				224.5	(1170.3)		
CALKINS, 1934	P.37	"	41 21 30.051				927.1	(923.9)		
	Conn		72 11 28.611				665.0	(729.6)		
CAMP, 1934	P.35	"	41 19 52.678				1625.1	(225.9)		
	Conn.		72 11 01.033				24.0	(1373.2)		
SS CAMP, 1934	Comp.	"	41 19				1611.2	(239.8)		
			72 11				123.9	(1271.3)		
CAMPCROSS, FLAGPOLE, 1934	P.44	"	41 19 49.303				1521.0	(330.0)		
	Conn.		72 11 26.874				625.1	(770.2)		
CAMP CROSS STACK, 1934	P.44		41 19 59.78				1844.0	(7.0)		
	Conn.	"	72 11 17.07				397.0	(998.2)		
DARROW, FLAGPOLE, 1934	P.45	"	41 20 51.740				1596.2	(254.8)		
	Conn		72 10 57.836				1344.9	(49.9)		
FLANDERS, 1934	P.38	"	41 22 04.741				146.3	(1704.7)		
	Conn.		72 11 37.606				874.0	(520.8)		
GROVE, 1934	P.36	"	41 20 02.523				77.8	(1773.2)		
	Conn		72 11 01.077				25.0	(1370.3)		
HOWARD'S CHIMNEY, 1934	P.43	"	41 19 39.097				1206.1	(644.9)		
	Conn.		72 11 11.747				273.2	(1122.7)		
JUDSON, 1934	P.36	"	41 20 42.264				1303.8	(547.2)		
	Conn.		72 11 24.937				579.8	(815.1)		

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: J. B. McDonald DATE 3 Nov. 1955 CHECKED BY: M. M. Slavney DATE Aug. 1956

Photogrammetry

MAP T- 11444 PROJECT NO. Ph-142 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 FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
SS JUDSON, 1934	Comp.	N.A. 1927	41 20				1325.7	(525.3)		
			72 11				578.1	(816.8)		
KEENEY'S CHIMNEY, 1934	P.46 Conn.	"	41 22 02.41				74.3	(1776.7)		
			72 11 32.03				744.4	(650.1)		
LA MARCHE'S CHIMNEY, 1934	"	"	41 22 04.76				146.8	(1704.2)		
			72 11 40.13				932.7	(461.4)		
LEWIS 2, 1946	W.O.	"	41 19 30.750				948.6	(902.4)		
			72 11 13.809				321.1	(1074.3)		
MACHOL, 1934	P.37 Conn.	"	41 21 19.422				599.2	(1251.8)		
			72 11 21.241				493.7	(901.0)		
MANETUCK 1, 1882	Conn.	"	41 21 15.059				464.6	(1386.4)		
			72 09 03.328				77.4	(1317.4)		
SS MANETUCK 1, 1882	Comp.	"	41 21				508.7	(1342.3)		
			72 09				65.7	(1329.4)		
MANETUCK 2, 1882	P.31 Conn.	"	41 21 14.754				455.2	(1395.8)		
			72 09 03.682				85.6	(1309.1)		
MC COOK, 1934	P.35 Conn.	"	41 19 07.340				226.4	(1624.6)		
			72 11 46.912				1091.1	(304.5)		
MC LERNON, 1934	P.36 Conn.	"	41 20 33.963				1047.8	(803.2)		
			72 10 32.331				751.7	(643.3)		
MELCER'S CHIMNEY, 1934	P.63 Conn.	"	41 20 34.964				1078.6	(772.4)		
			72 09 22.151				515.1	(879.9)		
MC LERNON CHIMNEY, 1934	P.44 Conn.	"	41 20 35.24				1087.2	(763.8)		
			72 10 28.51				663.0	(732.0)		

1 FT. = .3048006 METER

COMPUTED BY: J. B. McDonald DATE 3 Nov. 1955 CHECKED BY: M. M. Slavney DATE Aug. 1956

M-2388-12

Photogrammetry

MAP T- 11444 PROJECT NO. Ph-142 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 FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
MINOR, 1934	P.36 Conn.	N.A. 1927	41 21 07.794				240.4	(1610.6)		
			72 10 46.439				1079.5	(315.3)		
MINOR CHIMNEY, 1934	P.45 Conn.	"	41 21 02.186				67.4	(1783.6)		
			72 10 53.524				1244.3	(150.5)		
MINOR, WINDMILL, 1934	"	"	41 21 04.89				150.9	(1700.1)		
			72 10 53.76				1249.8	(145.0)		
NEWTON'S CHIMNEY, 1934	P.63 Conn.	"	41 18 47.43				1463.2	(387.8)		
			72 08 50.99				1186.3	(209.4)		
NIANTIC BAPTIST CHURCH TOWER, 1934	P.43 Conn.	"	41 19 19.98				616.4	(1234.6)		
			72 12 02.09				48.6	(1346.9)		
NIANTIC BLACK & YELLOW TANK, 1932	P.63 Conn	"	41 19 08.188				252.6	(1598.4)		
			72 12 03.368				78.3	(1317.3)		
NIANTIC, FLAGPOLE, 1934	P.43 Conn.	"	41 19 25.530				787.6	(1063.4)		
			72 11 33.824				786.7	(608.7)		
NIANTIC RIVER, HIGHWAY BRIDGE DRAW, 1934	P.44 Conn.	"	41 19 27.764				856.5	(994.5)		
			72 10 36.926				858.9	(536.5)		
OSWEGO, 1934	P.35 Conn.	"	41 20 53.590				1653.3	(197.7)		
			72 10 40.197				934.5	(460.3)		
PARK, 1934	P.37 Conn.	"	41 21 30.202				931.7	(919.3)		
			72 11 19.147				445.1	(949.9)		
PINE, 1934	P.36 Conn.	"	41 20 51.930				1602.0	(249.0)		
			72 10 55.571				1291.9	(102.9)		
PLANT, 1934	P.37 Conn.	"	41 21 05.812				179.3	(1671.7)		
			72 11 15.485				360.0	(1034.8)		

1 FT. = .3048006 METER

COMPUTED BY: J. B. McDonald DATE 3 Nov. 1955 CHECKED BY: M. M. Slavney DATE Aug. 1956

M-2388-12

Photogrammetry

MAP T-11444 PROJECT NO. Ph-142 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 FORWARD (BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
PIATT, 1934	P.36 Conn.	N.A. 1927	41 20 13.608			419.8 (1431.2)	
			72 10 30.163			701.4 (693.7)	
REICK, CHIMNEY, 1934	P.45 Conn.	"	41 20 56.91			1755.7 (95.3)	
			72 10 39.32			914.3 (480.5)	
SANDY POINT, 1934	P.36 Conn.	"	41 20 50.595			1560.9 (290.1)	
			72 11 13.036			303.1 (1091.8)	
SPRUCE LEDGE, 1934	P.31 Conn.	"	41 20 15.900			~~490.5~~ 490.5 (1360.5)	
			72 13 23.876			555.1 (840.0)	
SS SPRUCE LEDGE, 1934	Comp.	"	41 20			401.84 (1449.2)	
			72 13			556.2 (838.2)	
SPUR, 1934	P.37 Conn.	"	41 21 46.782			1443.2 (407.8)	
			72 11 36.001			836.7 (557.9)	
STATE FARM WIND-MILL, 1934 DESTROYED	P.63 Conn.	"	41 19 33.96	FOUNDATION IDENTIFIED		1047.7 (803.3)	
			72 13 52.83			1228.8 (166.6)	
THAMES DYE AND BLEACHER CO. TANK, 1934	P.43 Conn.	"	41 19 29.32			904.5 (946.5)	
			72 11 49.81			1158.5 (236.9)	
TURKEY, 1934	P.37 Conn.	"	41 21 21.691			669.2 (1181.8)	
			72 11 27.534			640.0 (754.7)	
SS TURKEY, 1934	Comp.	"	41 21			621.9 (1229.1)	
			72 11			681.4 (713.3)	
WIGWAM ROCK, 1934	P.42 Conn.	"	41 19 00.884			27.3 (1823.7)	
			72 11 45.680			1062.5 (333.1)	
YARDARM, FLAGPOLE, 1934	P.46 Conn.	"	41 21 23.246			717.1 (1133.9)	
			72 11 16.483			383.2 (1011.5)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: J.B. McDonald DATE 3 Nov. 1955 CHECKED BY: M. M. Slavney DATE Aug. 1956

Photogrammetry

MAP T- 11444 PROJECT NO. Ph-142 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 FORWARD (BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
SS FLANDERS RM 2, 1934	P.38 Conn.	N.A. 1927	41 22			161.9 (1689.1)	
			72 11			863.2 (531.3)	
SS 575 (Conn. Geod.Sur.) 1937	Photo-stat	"	y = 175,542.16	542 (4,458)			
			x = 769,408.92	4,409 (591)			
LEWIS 2, RM 1, 1946	Comp.	"	41 19			970.1 (880.9)	
			72 11			300.7 (1094.7)	
SS MC LERNON, 1934	Comp.	"	41 20 ~~1089.4~~			1089.4 (761.6)	
			72 10 ~~768.0~~			768.0 (627.0)	

1 FT. = .3048006 METER

COMPUTED BY: J. B. McDonald DATE 3 Nov. 1955 CHECKED BY: M. M. Slavney DATE Aug. 1956

M-2388-12

COMPILATION REPORT T-11444

PHOTOGRAMMETRIC PLOT REPORT

21 through 30.

A stereoplanigraph bridge was run in the Washington Office to provide control for the models not controlled by identified triangulation and traverse stations. Identified control that could not be held is discussed in Item 32 CONTROL.

31. DELINEATION

The Kelsh Plotter was used for compilation with the exception of the northern most area in T-11444 W/2, which was beyond the diapositives furnished and was compiled graphically from photographs DPE-SH-94 and 95.

Field inspection was satisfactory.

32. CONTROL

Twenty-six stations were identified, of which two could not be held.

REICK'S CHIMNEY, 1934 (on model 837-838) positively identified, falls about 61 meters south of the plotted Geographic Position. There is a house and chimney that does fit the Geographic Position. Notes have been made on the control station identification card and field print 54 W-837, on which it is identified.

Substitute Station MC LERNON, 1934 (also on model 837-838) positively identified, fell about 5 meters south of the plotted position. The position of the substitute point, the end of a pier, ruled out mis-identification and indicated an error in the distance from MC LERNON to the subsitute station. This was corroborated by the field party. The correct distance is 1467 ft. and not 164.7 ft.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage has been delineated according to field inspection notes and photographic interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate for delineation of shoreline features. The approximate low-water line and shallow areas were taken from nine-lens low-water photography.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

Forms 567 for landmarks and aids to navigation located by triangulation were submitted to the Washington Office by the field party 20 October 1954. An additional landmark, located photogrammetrically is listed on Form 567 and is submitted herewith.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-11445 to the east and T-11449 to the south. There are no contemporary surveys to the north and to the west.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U. S. Geological Survey Quadrangle NIANTIC, CONN., scale 1:31680, edition of 1938. Only minor differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Nautical Chart No. 214, scale 1:20,000, 4th edition, corrected to July 19, 1954. Only minor differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Rexford E. Smith Jr.
Rexford E. Smith Jr.
Carto Photo Aid

APPROVED AND FORWARDED:

J. E. Waugh.
J. E. Waugh
Chief of Party.

49. NOTES FOR THE HYDROGRAPHER

Pass points were dropped along the shore to facilitate the location of photo hydro stations. The pass points and the identified horizontal control points have been transferred to all the office ratio prints.

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING LANDMARKS FOR CHARTS

TO BE CHARTED / TO BE DELETED } STRIKE OUT ONE

Tampa District Office 15 May, 19 57

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

The positions given have been checked after listing by Rexford E. Smith Jr.

J. E. Waugh *Chief of Party.*

STATE CONNECTICUT

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE * ° ′	LATITUDE * ″ D.M. METERS	LONGITUDE * ° ′	LONGITUDE * ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				2.66		12.82							
TANK	Skeleton steel		41 20	82	72 11	296	N.A. 1927	Photogrammetry F-11[illegible]/2	9/24/54	X	X		214,212
	ht= 150 (170)												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11444

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

4a Classification label unclassified.

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline M.M.S. 13. Low-water line M.M.S 14. Rocks, shoals, etc. M.M.S. 15. Bridges M.M.S. 16. Aids to navigation M.M.S 17. Landmarks M.M.S. 18. Other alongshore physical features M.M.S. 19. Other alongshore cultural features M.M.S.

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads M.M.S. 28. Buildings M.M.S. 29. Railroads M.M.S 30. Other cultural features M.M.S

BOUNDARIES

31. Boundary lines M.M.S. 32. Public land lines XX

MISCELLANEOUS

33. Geographic names M.M.S. 34. Junctions M.M.S. 35. Legibility of the manuscript M.M.S 36. Discrepancy overlay XX 37. Descriptive Report M.M.S. 38. Field inspection photographs M.M.S. 39. Forms M.M.S.
40. M. M. Slavney M.M. Slavney by W.A.R. — William A. Rasure William A. Rasure
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:

COMM-DC 34529

FORM 1[redacted]
(4-27-[redacted]

TIDE C[redacted]UTATION

U.S. DEPARTMEN[redacted] COMMERCE
COAST AND GEO[redacted]TIC SURVEY

PROJECT NO. ~~PH-~~ 6042 T 11445

Time and date of exposure 15:25 Apr 22, 1954 Reference station NEW LONDON Mean range 2.7

Date of field inspection 10-14-54 Subordinate station MILLSTONE POINT Ratio of ranges

	Time h.	m.
High tide	10	22
Low tide	4	23
Duration of rise or fall	5	59

	Height feet	Height x Ratio of ranges
High tide	3.7	3.8
Low tide	-0.2	-0.2
Range of tide		4.0

	Time h.	m.
High tide at Ref. Sta.	10	17
Time difference	+ 0	05
Corrected time at Subordinate station	10	22

	Time h.	m.
Low tide at Ref. Sta.	4	18
Time difference	+ 0	05
Corrected time at Subordinate station	4	23

	h.	m.		feet		feet	Photo. No.
Time H. T. ~~or L. T.~~	10	22	Ht. H. T. ~~or L. T.~~	3.8	Feature bares	0.0	760
Required time	09	00	Tabular correction	0.5	Stage of tide above MLW	3.3	awash MHW
Interval	1	22	Stage of tide above MLW	3.3	Feature above MLW	3.3	
Time H. T. ~~or L. T.~~	10	22	Ht. H. T. ~~or L. T.~~	3.8	Feature bares	3.0	842
Required time	11	50	Tabular correction	0.5	Stage of tide above MLW	3.3	
Interval	1	28	Stage of tide above MLW	3.3	Feature above MLW	6.3	(3) NK
Time H. T. ~~or L. T.~~	10	22	Ht. H. T. ~~or L. T.~~	3.8	Feature bares	1.5	812
Required time	10	10	Tabular correction	0.0	Stage of tide above MLW	3.8	(2)
Interval		12	Stage of tide above MLW	3.8	Feature above MLW	5.3	Rock
Time H. T. ~~or L. T.~~	10	22	Ht. H. T. ~~or L. T.~~	3.8	Feature bares ~~awash~~	0.0	813
Required time	9	50	Tabular correction	0.5	Stage of tide above MLW	3.7	(1)
Interval		32	Stage of tide above MLW	3.7	Feature above MLW	3.7	Rock
Time H. T. ~~or L. T.~~	10	22	Ht. H. T. ~~or L. T.~~	3.8	Feature bares	1.0	813
Required time	9	40	Tabular correction	0.15	Stage of tide above MLW	3.67	(2)
Interval		42	Stage of tide above MLW	3.7	Feature above MLW	4.67	wk
Time H. T. ~~or L. T.~~	10	22	Ht. H. T. ~~or L. T.~~	3.8	Feature bares ~~awash~~	0.0	813
Required time	10	00	Tabular correction	0.0	Stage of tide above MLW	3.8	(1)
Interval		22	Stage of tide above MLW	3.8	Feature above MLW	3.8	Rock

COMM-DC-57848

Computed by P. E. Smith Checked by [illegible]

+0.1

TIDE COMPUTATION

PROJECT NO. Ph- T-

Time and date of exposure 1523 Apr. 22, 1954 Reference station NEW LONDON CONN.

Spring range 3.2
Mean range 2.7

Date of field inspection Oct. 1954 Subordinate station Millstone Point

Ratio of ranges

	Time	
	h.	m.
High tide	11	53
Low tide	18	19
Duration of rise or fall	6	26

	Height	Height x Ratio
	feet	of ranges
High tide	+0.1	2.1
Low tide	0.0	0.6
Range of tide		1.5

	Time	
	h.	m.
High tide at Ref. Sta.	11	53
Time difference	+0	05
Corrected time at Subordinate station	11	58

	Time	
	h.	m.
Low tide at Ref. Sta.	18	19
Time difference	+0	05
Corrected time at Subordinate station	18	24

	h. m.		feet		feet	Photo. No.
Time ~~H. T. or~~ L. T. Required time Interval	18 24 15 23 3 01	Ht. ~~H. T. or~~ L. T. Tabular correction Stage of tide above MLW	0.6 0.7 1.3	Feature bares Stage of tide above MLW Feature above MLW		0755
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

M-2617-12

Computed by R.E. Smith Checked by

TIDE COMPUTATION

PROJECT NO. Ph- 142 T. 11449

Time and date of exposure 1236 Apr. 30, 1954 Reference station NEW LONDON CONN Spring range 3.2 Mean range 2.7

Date of field inspection Oct 1954 Subordinate station Millstone Point ~~Ratio of ranges~~

	Time	
	h.	m.
High tide	6	46
Low tide	13	07
Duration of rise or fall	6:21	

	Height	Height x Ratio
	feet	of ranges
High tide	+0.1	2.8
Low tide	0.0	-0.1
Range of tide		2.9

	Time	
	h.	m.
High tide at Ref. Sta.	6	46
Time difference	+0	05
Corrected time at Subordinate station	6	51

	Time	
	h.	m.
Low tide at Ref. Sta.	13	07
Time difference	+0	05
Corrected time at Subordinate station	13	12

	h. m.		feet		feet	Photo. No.
Time ~~H. T.~~ or L. T. Required time Interval	13 12 12 36 0 36	Ht. ~~H. T. or~~ L. T. Tabular correction Stage of tide above MLW	-0.1 0.1 0.0	Feature bares Stage of tide above MLW Feature above MLW		43838
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

M-2617-12

Computed by P. E. Smith Checked by

Office of the Assistant Chief of Staff, G-2, Intelligence

AMFKB-SD-SMI 380.01

SUBJECT: Review of Map Manuscript T-11444 W/2 (U)

TO: Director
Coast and Geodetic Survey
Washington 25, D. C.

Reference is made to your letter to this Headquarters dated 14 October 1957, which requested review and clearance of Map Manuscript T-11444 W/2. A copy of the map manuscript T-11444 W/2 furnished by you, has been reviewed. The Commanding General First United States Army has no objection to the declassification of the attached map as it has no details which should be deleted prior to declassification.

FOR THE ASSISTANT CHIEF OF STAFF, G-2:

3 Incls
1. Ltr dtd 14 Oct 57
2. Ltr dtd 4 Oct 57
3. Map Manuscript

JOSEPH M. WILLIAMSON
Colonel GS
Chief, Security Division

TELEPHONE RECTOR 2-8100

HEADQUARTERS OF THE
COMMANDANT THIRD NAVAL DISTRICT
FEDERAL OFFICE BUILDING, 90 CHURCH STREET
NEW YORK 7, N. Y.

ADDRESS REPLY TO
COMMANDANT THIRD NAVAL DISTR.

AND REFER TO:
DHq-36:RS:gew
312
Serial:

CONFIDENTIAL

From: Commandant, Third Naval District
To: Coast and Geodetic Survey, Washington, D. C.
(Attn: Photogrammetry Division)

Subj: Security Review of Shoreline Map

Encl: (1) Print of Manuscript No. T-11444 W/2

1. Enclosure (1) is returned herewith.

2. The Commandant interposes no objection to the declassification of enclosure (1). However, inasmuch as the area is subject to jurisdiction of other military commanders, it is recommended that they be contacted prior to declassification.

A. M. KOWALEYK, JR.
Chief of Staff

CONFIDENTIAL

GEOGRAPHIC NAME LIST

Beaver Dam Brook
Bride Brook
Bride Lake
Bush Pond

Clark Pond
Connecticut
Connecticut State Farm for Women
Crescent Beach

Dodge Pond
Duffy Hill

Flanders

Golden Spur
Gorton Pond
Graniteville
Great Neck

Havens Pond

*Jordan
*Jordan Brook
*Jordan Cove

*Keany Cove

*Latimer Brook
Little Dodge Pond

*Mago Point
Manatuck Hill
Manatuck Springs
McCook Point
Moringside Park

Nevins Brook
New York,New Haven & Hartford R.R.
Niantic
Niantic Bay
Niantic River

Oswegatchie
Oswegatchie Hill

Pataguanset River
Pine Grove

GEOGRAPHIC NAME LIST

Red Brook

Sandy Point
Smith Cove

The Bar

Waterford Island
Waterford Station
Wigwam Rock

B.G.N. Decision

George M. Bore
GEOGRAPHIC NAMES SECTION
13 SEPTEMBER 1960

REVIEW REPORT T-11444 E/2, W/2
SHORELINE
September 12, 1960

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

64	1:10,000	1838
78	1:20,000	1838
83	1:10,000	1839
84	1:10,000	1846
1651	1:10,000	1883-87

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

USGS Niantic, Conn., 1:31,680 1938

64. COMPARISON WITH COMTEMPORARY HYDROGRAPHIC SURVEYS:

None

65. COMPARISON WITH NAUTICAL CHARTS:

214 1:20,000 4th Edition 1951 Revised 5/25/59

This chart compared well with this new survey. There are some small piers, a few docks in ruin that are evident on the chart and not shown on this survey. These are of little significance and are not listed by the reviewer.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with instructions and meets National Standards of Map Accuracy.

Submitted by:

A. K. Heywood

Approved by:

L. C. Lande
Chief, Review & Drafting Sec.
Photogrammetry Division

Marvin T. Pankson
Chief, Nautical ~~Chart Dr.~~
Charts Division

J. E. Waugh 4/3/62
Chief, Photogrammetry Division

G. B. Mast
Chief, Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11444 E & W.

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/21/62	214	W. H. Hall	[redacted] After Verification and Review
6-18-73	1212	DL Pattilow	[redacted] After Verification and Review
			FULLY APPLIED
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.