12395 Original

12395

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline(Photogrammetric)

Field No. ..... *Office No.* T-12395

LOCALITY

State New York

General locality Long Island Sound

Locality Stony Brook Harbor

19 65 - 1967

CHIEF OF PARTY

Allen L. Powell,
Director, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

FORM C&GS-181a
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 12395

PROJECT NO. (II):

Job PH-6603

FIELD OFFICE (II):	CHIEF OF PARTY
Riverhead, Long Island, New York	Joseph K. Wilson
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Atlantic Marine Center	J. Bull, RADM, Director

INSTRUCTIONS DATED (II) (III):

FIELD	January 24, 1966	Supplement I
FIELD	March 1966/6314	
OFFICE	May 27, 1966	Aerotriangulation
OFFICE	September 15, 1966	Compilation

METHOD OF COMPILATION (III):

Kelsh plotter and graphic

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000	1:5,000 pantographed 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):

GEOGRAPHIC DATUM (III):	VERTICAL DATUM (III): MHW
N. A. 1927	[redacted] 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* [redacted]

REFERENCE STATION (III):

BRINK, 1939

LAT.:	LONG.:	
40° 53' 15.752" (485.9m)	73° 10' 58.827" (1377.2m)	[x] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):	STATE	ZONE
Y = 242,305.19 X = 2,225,901.30	New York	Long Island

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.

USCOMM-DC 36393A-P66

FORM C&GS-181b
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): Matthew A. Stewart	DATE: 4/18/66, 6/17/66
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photography: 10/2/65	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE 10/20/66
PROJECTION AND GRIDS CHECKED BY (IV): L. F. Van Scoy	DATE 10/24/66
CONTROL PLOTTED BY (III): L. L. Graves K. Boyle	DATE 10/28/66 11/14/66
CONTROL CHECKED BY (III): J. Pate A. Santillan	DATE 10/28/66 11/14/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): P. Hawkins	DATE 8/30/66
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY A. Shands	DATE 5/17/67
CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): B. Wilson	DATE 6/07/67
SCRIBING BY (III): R. R. White	DATE 5/3/68
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E. Smith	DATE 6/12/67

REMARKS: FIELD EDIT BY: R.S. TIBBETTS OCT 1967

USCOMM-DC 36393B-P66

FORM C&GS-181c
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

RC-8 "L" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65-L-6534 & 6535	10-02-65	0815 01	1:30,000	2.8 3.0 ft. above MLW
65-L-6553 & 6554	10-02-65	0801 15	1:30,000	2.6 2.4 ft. above MLW
65-L-6753 & 6754 *	10-02-65	1632	1:30,000	~~½ ft. below MHW~~ 5.5 ft. above MLW
* For MHWL, enlarged to	1:20,000 only			

PREDICTED TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Bridgeport		6.8	8.0
SUBORDINATE STATION: Nissequogue River Entrance		7.0	8.3
SUBORDINATE STATION: Stony Brook, Smithtown Bay		6.1	7.2

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Atlantic Marine Center — DATE: Oct. 1969

PROOF EDIT BY (IV): — DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 3 5	RECOVERED: 3 4	IDENTIFIED: 1
NUMBER OF BM(S) SEARCHED FOR (II): 0	RECOVERED: 0	IDENTIFIED 0

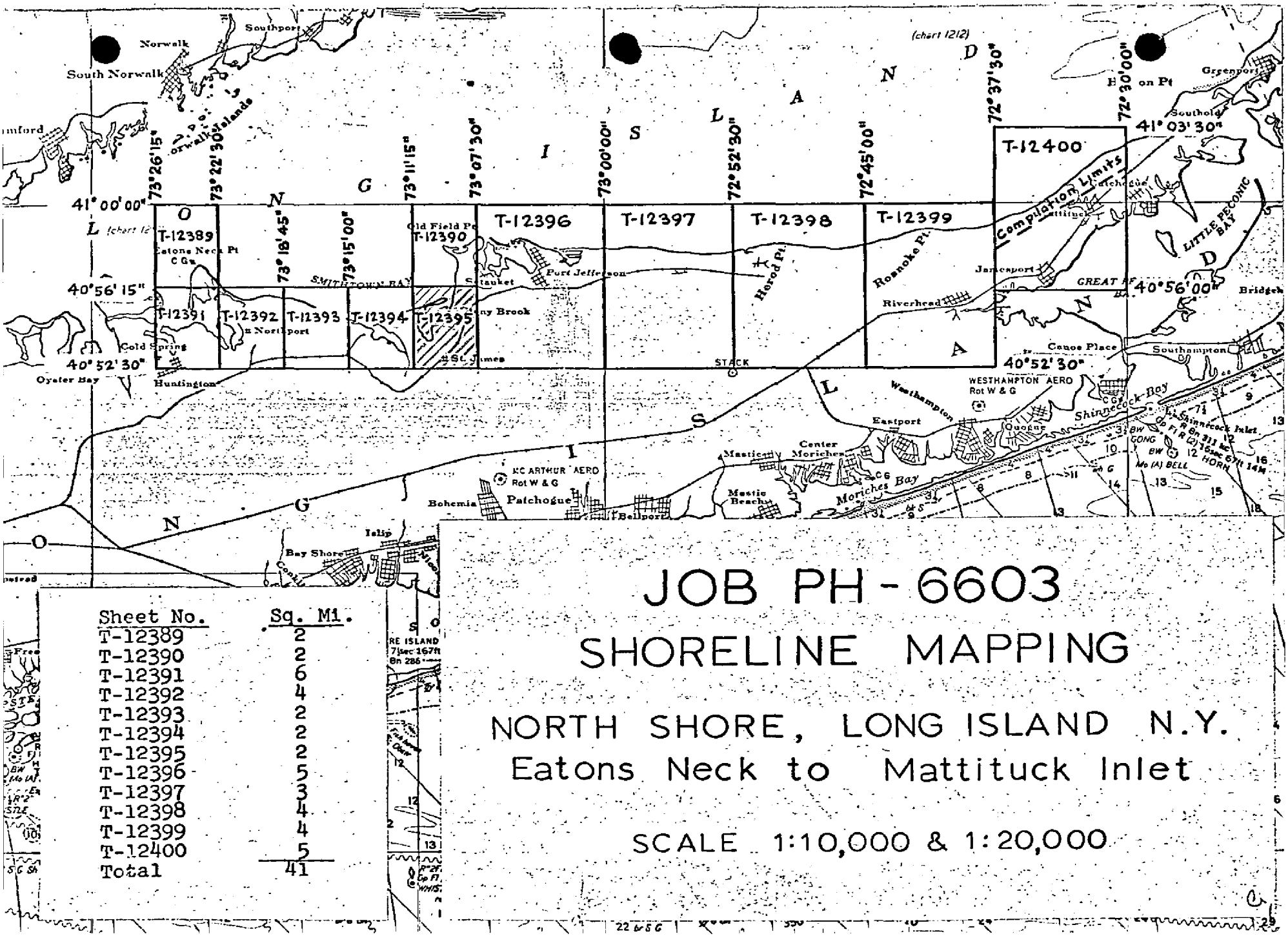
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0

REMARKS:

T-12395

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending Field Edit	June 1967	Superseded
Field Edit applied Compilation complete	February 1968	
Final Review	oct. 1969	



Sheet No.	Sq. Mi.
T-12389	2
T-12390	2
T-12391	6
T-12392	4
T-12393	2
T-12394	2
T-12395	2
T-12396	5
T-12397	3
T-12398	4
T-12399	4
T-12400	5
Total	41

JOB PH-6603

SHORELINE MAPPING

NORTH SHORE, LONG ISLAND N.Y.

Eatons Neck to Mattituck Inlet

SCALE 1:10,000 & 1:20,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12395

Shoreline survey T-12395 is one of seven similar 1:10,000 scale surveys in job PH-6603. The job is comprised of seven 1:10,000 and five 1:20,000 scale surveys. These surveys cover the north shore of Long Island from Eatons Neck to Mattituck Inlet. See page 5 for the area covered by this survey.

Field work preceding compilation consisted of identification of horizontal control, shoreline and field inspection, location of fixed aids to navigation, selection of landmarks for nautical charts and Geographic Names Investigation.

Compilation was at 1:10,000 scale of Kelsh Instrument and graphic methods using the photography of October 1965. A copy of the manuscript (classified incomplete) along with ozalids and specially prepared photographs was subsequently provided for preparation of boat sheets, location of photo-hydro signals and field edit use.

The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude. Field edit of the survey was accomplished in October 1967. After application of field edit the manuscript was scribed, stuck-up and reproduced on cronaflex. Final review was done in the Atlantic Marine Center in October 1969. One cronaflex positive and a negative of the final reviewed manuscript are forwarded for record and registry.

FIELD INSPECTION REPORT
Project PH-6603
Maps T-12389 thru T-12395

This report is submitted for seven maps since there is no great differences in terrain, natural or cultured features which would require special treatment.

2. AREAL FIELD INSPECTION

This area lies along the north shore of Long Island between Lloyd Neck and Old Field Point.

Field Inspection was completed on all seven maps generally to the limits of photography, during May and June 1966.

One area at the east end of Asharoken Beach is under construction by Long Island Light Company and will be changed considerably.

The terrain along this area covered by these maps consists of sand beaches, bluffs and wooded hills with very little marsh and no swamps. Most of the shoreline is accessible by truck.

Photographs of this area is of average quality being taken in October 1965.

Photographs used for field inspection are listed below by maps:

T-12389	T-12391	T-12392	T-12393	T-12394
65-L-6567	65-L-6573	65-L-6574	65-L-6564	65-L-6543
6568		6575	6577	6544
6571				
6572				

T-12395	T-12390
65-L-6545	65-L-6550
6546	6551
6554	6552
6559	65-L-6589 Color

3. HORIZONTAL CONTROL

Horizontal control recovery and identification has been completed in accordance with project instructions.

No new control was established.

Horizontal control stations reported "lost", "destroyed" or "not recovered" are listed below by maps:

T-12393
Long Island State Park Commission SM-95, 1939
VIEW, 1939

T-12392
Asharoken Beach, Wooden Water Tand, 1939
Chesebro's S W Chimney, 1916
Chesebro's Boat House, 1916

4. VERTICAL CONTROL

All tidal bench marks in the area of the seven maps were searched for and reported on form 685A.

The bench marks were identified on the photograph in accordance with the topographic manual.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is composed mostly of a few tidal streams and normal drainage is by direct run-off into these streams and low lands.

6. WOODLAND COVER

Woodland cover was classified in accordance with the topographic manual.

7. SHORELINE AND ALONG SHORE FEATURES

The high-water line has been indicated on the photographs by symbol in accordance with instructions. No attempt was made to delineate the low-water line.

The field inspection of the high-water line was accomplished by several methods, measurements from photo points and by visual inspection by truck and by walking the shoreline.

In a few areas the high-water line adjacent to inlets is subject to change due to storms.

Special attention is invited to grass in water just below the high water line. A large percentage of this grass is a narrow strip or small patches and has the appearance of mud on the photograph.

Inspection of bluffs were made and their location indicated on the photographs.

All other shoreline features are covered by field inspection notes on the photographs.

There has been no great changes in this area.

8. OFFSHORE FEATURES

Offshore features were checked by boat.

Rock areas were inspected at low water and a few of the outer rocks were located by sextant fixes or noted on the photographs.

The general area of these rocks was outlined to aid compilation of rocks on color photography to be taken at low water in the fall of 1966.

All areas of wrecks were inspected at low water and appropiate notes made on the photographs.

A wreck on the west side of Huntington Bay was located by photo points. This wreck is marked by a lighted bouy which is about 300 feet to the east.

One wreck in Northport Harbor (Chart 224) was verified at high water. There is no photography covering this area.

9. LANDMARKS AND AIDS

Nonfloating aids to navigation were verified as to existance and number. They were located by direct photo identification or other field methods.

Landmarks for charts were identified, classified and heights obtained.

Form 567 has been submitted for both features.

The nautical landmarks north and east of Huntington were verified and are shown on a letter-size chart. This area has no photo coverage.

10. BOUNDARIES, MONUMENTS AND LINES

In accordance with project instructions.

11. OTHER CONTROL

None established.

12. OTHER INTERIOR FEATURES

Classified according to current instructions.

13. GEOGRAPHIC NAMES

A complete investigation of geographic names will be submitted to Rockville at a latter date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Horizontal Control Indentification Data to Rockville, Transmittal letter dated 5/12/66, reference #33.

Nonfloating Aids or Landmarks for Charts, Transmittal letter dated 6/23/66, reference #41.

Field Inspection Data, Transmittal letter dated 6/23/66, reference #40.

Approved and forwarded:

Joseph K. Wilson
Chief, Photo Party 759

Submitted:
June 27, 1966

Ernest W. Hartford
Surveying Technician

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6603
North Shore Long Island, New York

August 30, 1966

21. Area Covered

The area covered in this report extends from Eatons Neck to Mattituck Inlet, along the North Shore of Long Island, New York.. Included in this area are T-sheets 12390 thru 12400.

22. Method

Five strips of photography (A thru E) were bridged on the stereoplanigraph and adjusted by IBM 1620 methods. Strip "A" was adjusted on six control stations, with three control stations as checks. Strip "B" was adjusted on five control stations. Strip "C" was adjusted on four stations with two stations as checks. Strip "D" was adjusted on seven stations with three stations as checks. Strip "E" was adjusted on two stations with three stations as checks. All points were drilled by PUG methods. Tie points between strips were averaged.

23. Adequacy of Control

Horizontal control was adequate and complied with project instructions. All control held within National Map Accuracy Standards with the following exceptions:

(1) OLD FIELD PT. LT. (new) 1939, held in Strip "C" but could not be seen clearly in Strip "D" and as a result could not be held in Strip "D".
(2) INDIANA 1933, SS "A" and SS "B" could not be held in either Strips "D" or "E" due to poor images and deep shadows which resulted in the inability of the stereoplanigraph operator to identify the the substations with any degree of accuracy.

24. Supplemental Data

Local USGS quads were used for vertical control during bridging adjustment. Vertical elevations obtained by the bridge should not be used to obtain exact vertical datum.

25. Photography

Photography was adequate as to coverage and overlap. Definition and quality of diapositives were not up to usual standards in that they were very dark. However, all photography was usable.

Submitted by:

Paul Hawkins by JPP

Paul Hawkins

Approved by:

John D. Perrow Jr.

John D. Perrow, Jr.

FORM C&GS-164
(4-68)
USCOMM-DC
50316-P68

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12395 PROJECT NO. PH-6603 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE / LONGITUDE OR X COORDINATE			N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD	(BACK)
STONY BROOK METHODIST			40°	55'	27.191" ✓	838.8 ✓	(1012.0) ✓
CHURCH SPIRE, 1885	G.P. 117	NA 1927	73	08	34.866 ✓	815.8 ✓	(588.1) ✓
SAINT JAMES SCHOOL			40	53	04.25 ✓	131.1 ✓	(1719.7) ✓
CUPOLA, 1939	G.P. 119	"	73	09	32.56 ✓	762.3 ✓	(642.5) ✓
			40	53	15.752 ✓	485.9 ✓	(1364.9) ✓
BRINK, 1939	G.P. 193	"	73	10	58.827 ✓	1377.2 ✓	(27.5) ✓
			40	55	23.895 ✓	737.1 ✓	(1113.7) ✓
BROOK, 1931	G.P. 193	"	73	07	49.520 ✓	1158.7 ✓	(245.3) ✓

COMPUTED BY A. C. Rauck, Jr. DATE September 29, 1966 CHECKED BY L. O. Neterer, Jr. DATE October 6, 1966

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COMPILATION REPORT
T-12395

31. DELINEATION:

The Kelsh plotter was used. Field inspection was adequate, photography satisfactory.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours - inapplicable.

Drainage was delineated from office interpretation of the photographs with the aid of Field inspection.

35. SHORELINE AND ALONGSHORE ~~DATA~~ DETAILS:

The shoreline inspection was adequate. Low water lines were delineated from office interpretation of the photos.

The high water line was largely determined by visual comparison of and measurements (proportioned) from the 1:20,000 scale photos at high water, numbers 65-L-6753 and 6754.

36. OFFSHORE DETAILS:

Because of much wave action on the open waters of this manuscript at the time of photography, there may be rocks existing in the bay which are not compiled. Two are shown on the chart. These and any others that may exist will need to be located by the Field editor and/or the Hydro party. This has been called to the attention of the Field editor on the Field edit ozalid.

37. LANDMARKS AND AIDS:

Appropriate copies of Form 567 for Landmarks and Aids were forwarded to the Washington Office, June 1967.

Appropriate copies of Form 567 for Aids were forwarded to the Washington office under date February 1968.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Satisfactory junctions have been made with T-12394 to the west and T-12390 to the north. There are no contemporary surveys joining to the south and east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangle, SAINT JAMES, N. Y., scale 1:24,000, dated 1955.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 117-SC, scale 1:40,000, 6th edition, dated November 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None

Submitted:

B. Wilson

B. Wilson
Cartographic Technician

Approved and forwarded:

Allen L. Powell

Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

GEOGRAPHIC NAMES

FINAL NAME SHEET

(Long Island, N. Y.)

PH-6602

PH-6603

T-12395

Christian Avenue
Heart Island
Long Beach
Long Beach Road
Main Street
Porpoise Channel
Smithtown Bay
Stony Brook (feature)
Stony Brook (village)
Stony Brook Harbor
Stony Brook Road
West Meadow Beach
West Meadow Creek
West Meadow Road

Approved by:

A. J. Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

Shallow and shoal lines were delineated from office interpretation of the photographs. They are shown as an aid for the hydrographer only.

Refer to notes on the Field Edit Ozalid.

16 76

FORM C&GS-1002
(9-66)

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

PHOTOGRAMMETRIC OFFICE REVIEW

T- 12395

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RES	RES	RES	RES

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
RES	RES	X

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
X	RES	Bridge (W.O.)	Kelsh

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RES	RES	RES	X

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RES	RES	RES	RES

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
RES	RES	X

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
X	X	X	RES

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
RES	RES	X	RES

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
X	X

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
RES	RES	RES

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
X	RES	RES	RES

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
R. E. Smith R. E. Smith	Albert C. Rauck Jr. A. C. Rauck, Jr.

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
R. E. Smith R. E. Smith	Albert C. Rauck Jr. A. C. Rauck, Jr.

43. REMARKS

Field edit was applied from Field edit ozalid, ~~Hydro D & P book, Boat sheet~~, Field edit and/or Hydro cronaflex.

PROJECT OPR 474

LONG ISLAND SOUND

PHOTO-HYDRO SUPPORT TO USC&GS SHIP WHITING

REPORT OF

PHOTOGRAMMETRIC SUB UNIT PARTY 62

- - - - - - - - - - - - -

A. PURPOSE AND SCOPE OF SUPPORT:

Photogrammetric support for Hydrography operations by the SHIP WHITING was performed by a sub-unit of Photogrammetric party 62 under instruction for Project OPR 474 dated 18 May 1967. The ship was supplied with all necessary Control, Signal building, and Field edit.

B. CONTROL

Hydrographic control consisted of triangulation, and photo-hydro stations. The photo-hydro station were located in accordance with Photo gammetry Instructions No. 45. Natural objects were utilized as hydro signals whenever possible. This saved a great deal of time, as it eliminated the trouble and time spent obtaining premission to erect a banner or tripod type signal on private property.

C. PHOTOGRAPHY

The photographs for the project consisted of 1965 L 1:10,000 scale ratio photographs for the area between Eatons Neck and Old Field Point. The area to the East of Old Field Point is covered by 1966 1:20,000 ratio photographs. These photo-graphs were of good quality and only usual amount of dificulty was encountered in idintifying signal sites.

D. DISPOSITION OF DATA:

Cronaflex copy of sheets T 12389 through 12396 were turned over to the Commanding Officer of the Ship Whiting. All photographs and unused Cronaflex copies of manuscripts and Field Edit Data were returned to the Atlantic Marine Center.

E. SPECIAL REPORT:

A field Edit report will be submitted for the entire project at a later date.

Respectfully submitted:

Robert S. Tibbetts

RST/ckj

Approved and Forwarded:

Wayne L Mobley

for Sidney C. Miller, LCDR, USESSA
Commanding USC&GS Ship WHITING

~~#9~~
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FIELD EDIT REPORT

PROJECT PH 6603

LONG ISLAND, NEW YORK

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51. This report is submitted for sheets T-12389 thru T-12396. The edit was accomplished by visually inspecting the shoreline from a small boat and via road by truck.

All questions were answered as completely as possible on the discrepancey ozalids. In several cases the field editor was asked to locate and or verify depths and numerous rocks.

The Ship Whiting had already completed Hydrography, before field Edit of sheets T-12389 thru T-12396 was started. They obtained depths and positions on all rocks during the course of hydrography. The field editor obtained a copy of this data and it was transmitted with the field edit data.

No compairson was made with the Whitings Boat Sheets where their was a overlap of work, because the Whiting left the area before edit was completed.

52. Adequacy of Compilation.

These maps are adequate for the transfer of shoreline and location of signals on hydrographic survey sheets.

54. Recommendations.

None.

Respectfully submitted:

Robert S Tibbetts

Robert S. Tibbetts

REVIEW REPORT T-12395
SHORELINE
October 10, 1969

61. GENERAL STATEMENT

See Summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

Comparison was made with copies of Registered surveys No. 1723 and 1724, each 1:10,000 scale surveys, made in 1886. As can be expected the passage of time and man made changes have altered the shoreline by erosion and by dredging of new small boat harbors.

The two older surveys are superseded by T-12395 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS SAINT JAMES, N. Y. 7 1/2 minute quadrangle, 1:24,000 scale, edition of 1955. The shoreline of the two surveys is in good agreement with the following exceptions:

A new small boat basin has been dredged in the vicinity of latitude 40° 55.1' longitude 73° 10.5'.

Spoil, from dredging operations, deposited on Heart Island has extended that island to the northwest.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with boat sheet WH-10-2B-67 (H-8950). The shoreline of the boat sheet was obtained from a copy of T-12395 and there are no discrepancies.

Three rocks, located by the hydrographer, are not visible on the photograph. The rocks are located at the following positions:

Latitude	Longitude
40° 55' 13"	73° 10' 50"
40° 55' 13"	73° 10' 43"
40° 55' 14"	73° 10' 43"

These rocks have been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 117SC, 8th edition, corrected thru NM 43, October 26, 1968. The difference in the shoreline of the two surveys has been indicated on the comparison print in red.

Two rocks, reported in 1965, appearing on the chart at latitude 40° 55' 23" longitude 73° 11' 00" and at latitude 40° 55' 24" longitude 73° 10' 38" are not visible on the photographs. It is noted that neither of these rocks appear on the hydrographic survey.

An obstruction on the chart near latitude 40° 55' 00" longitude 73° 10' 36" is not visible on the photographs. The rocks and obstructions have been noted on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Leo F. Beugnet

Leo F. Beugnet

Approved by:

Allen L. Powell

Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

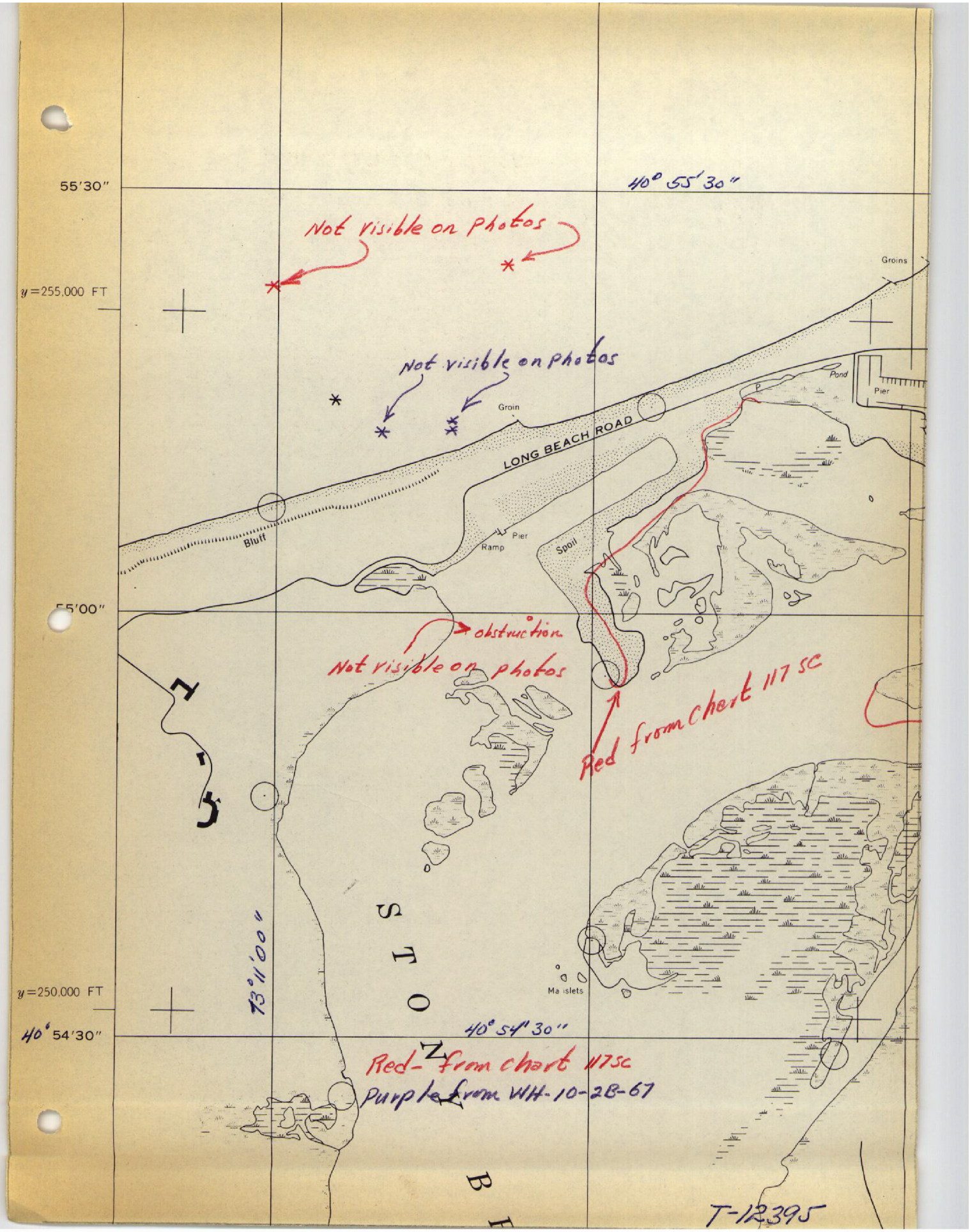
Approved by:

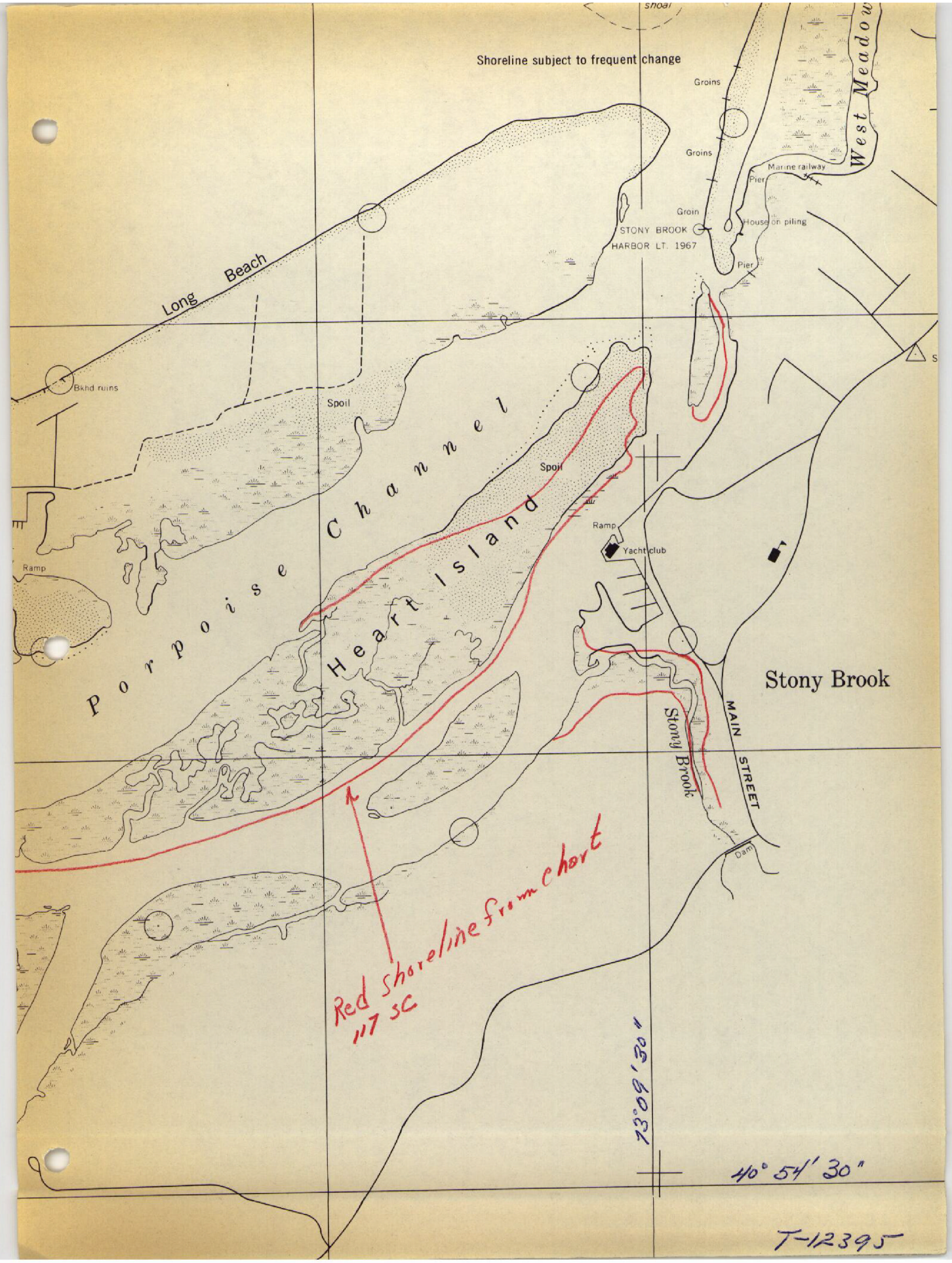
Charles Lemmon

Chief, Photogrammetric Branch AUB

Jack E. Guth

Chief, Photogrammetry Division


55'30"
40° 55' 30"
Not visible on Photos
y=255,000 FT
Groins
Not visible on Photos
Groin
Pond
Pier
LONG BEACH ROAD
Bluff
Pier
Ramp
Spoil
55'00"
obstruction
Not visible on photos
Red from chart 117 SC
73°11'00"
Ma islets
y=250,000 FT
40° 54' 30"
40° 54' 30"
Red - from chart 117 SC
Purple from WH-10-2B-67
T-12395


Shoreline subject to frequent change
Groins
Groins
West Meadow
Marine railway
Pier
Groin
STONY BROOK
HARBOR LT. 1967
House on piling
Pier
Long Beach
Bkhd ruins
Spoil
Porpoise Channel
Spoil
Heart Island
Ramp
Yacht club
Ramp
Stony Brook
MAIN STREET
Stony Brook
Dam
Red shoreline from chart
#17 SC
73° 30' 30"
40° 54' 30"
T-12395

C&GS [redacted] 567
(11-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND [redacted]DETIC SURVEY

T-12395

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

Atlantic Marine Center, May 23, 1967

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 B. Wilson

B. Wilson

J. Bull, RADM, USESSA
Director, AMC
Chief of Party.

STATE: NEW YORK

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
	LONG ISLAND												
Tank	Steel, 4 legs, Ht.= 103 (213) ft. (Brook, 1931)		40 55	23.895 737.1	73 07	49.520 1158.7	N.A. 1927	Tri. T-12395	Verified 5/6/66	X	X		117-SC 1213
Church	Ht.= 94 (184) ft. (Stony Brook Methodist Church Spire, 1885)		40 55	27.191 838.8	73 08	34.866 815.8	N.A. 1927	Tri T-12395	Verified 5/6/66	X	X		117-SC 1213

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 10234-P61

FORM C&GS-567
(5-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~AND LANDMARKS~~ FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~
} STRIKE OUT TWO

Atlantic Marine Center — February 16, 1968

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

The positions given have been checked after listing by _____

R. E. Smith — Chief of Party.

J. Bell, RADM, USCGSA
Director, AMC

STATE	NEW YORK		POSITION					METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE*		LONGITUDE*								
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	″ D.M. METERS	° ′	″ D.P. METERS	DATUM						
	LONG ISLAND SOUND												
	SMITHTOWN BAY												
LIGHT	Stony Brook Harbor Light		40 55	36.11 1114	73 08	54.75 1281	N.A. 1927	Photo. T-12395	Oct. 1967		x	x	117-SC 1213

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 36485-P66

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12395

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
11725C	5-25-73	W. Chandler	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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