

T-11704

T-11704

T-11704

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-11704
LOCALITY	
State	VIRGINIA
General locality	CAPE HENRY
Locality	LYNNHAVEN BAY
<u>1962 - 1963</u> CHIEF OF PARTY Ray M. Sundean, Chief of Field Party V. Ralph Sobieralski, Tampa District Officer	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T- 11704

PROJECT NO. (II): PH-6209			
FIELD OFFICE (II): Bayside, Virginia		CHIEF OF PARTY R. M. Sundean	
PHOTOGRAMMETRIC OFFICE (III): Tampa, Florida		OFFICER-IN-CHARGE V. Ralph Sobieralski	
INSTRUCTIONS DATED (I) (III): Field - September 12, 1962 Supplement 1, Field - October 16, 1962 Office- October 30, 1962			
METHOD OF COMPILATION (III): Kelsh plotter			
MANUSCRIPT SCALE (III): 1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.		DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): N. A. 1927		VERTICAL DATUM (III): MHW except as follows 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): CENTER, 1960			
LAT.: 36°54'55.251" (1703.2m.)	LONG.: 76°07'52.304" (1294.7m.)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED	
PLANE COORDINATES (IV): y = 220,587.55 Ft. x = 2,692,461.66 Ft.		STATE Virginia	ZONE South
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (I) 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.			

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): R. S. Tibbetts		DATE: November 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photographs: May 3, 1962 <i>Field Edit Cichy 1963</i>		
PROJECTION AND GRIDS RULED BY (IV): A. R. (W.O.)		DATE September 1962
PROJECTION AND GRIDS CHECKED BY (IV): L. F. B. (W.O.)		DATE September 1962
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE January 1963
CONTROL CHECKED BY (III): R. D. Purvis		DATE January 1963
RADIO PLOTTER STEREOSCOPIC CONTROL EXTENSION BY (III): W. Heinbaugh (W.O.)		DATE January 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III): I.I. Saperstein	PLANIMETRY Reviewed: I.I. Saperstein R.E. Smith	DATE January 1963
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): J. Honick Reviewed by: W. H. Shearouse		DATE January 1963
SCRIBING BY (III): Paul W. Leikhim Reviewed by: W. H. Shearouse		DATE June 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): W. H. Shearouse		DATE July 1963
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

3.

CAMERA (KIND OR SOURCE) (III):

Wild single lens "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-W-4038	May 3, 1962	1230	1:30,000 Diapositives	-0.2
62-W-4039	May 3, 1962	1230	" "	-0.2
62-W-4040	May 3, 1962	1230	" "	-0.2

Predicted TIDE (III)

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Hampton Roads	-	2.5	3.0
COORDINATE STATION:	Lynnhaven Inlet (R.R. Bridge)	HW -0.5 LW 0.0	2.0	2.4
SUBORDINATE STATION:				

WASHINGTON OFFICE REVIEW BY (IV): W.H. Shearouse (Tampa District Office)		DATE: December 1963	
PROOF EDIT BY (IV):		DATE:	
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 5*	RECOVERED: 4*	IDENTIFIED: 4**	
NUMBER OF BM(S) SEARCHED FOR (II): 0	RECOVERED:	IDENTIFIED:	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 21			

REMARKS:

* Including 3 stations west of project (No Form 526 was submitted for station CENTER 1960)

** Including 2 stations west of project

COMPILATION RECORD

COMPLETION DATE

REMARKS

Compiled	January 1963	superseded
Alongshore area revised from field edit. Manuscript complete	May 1963	

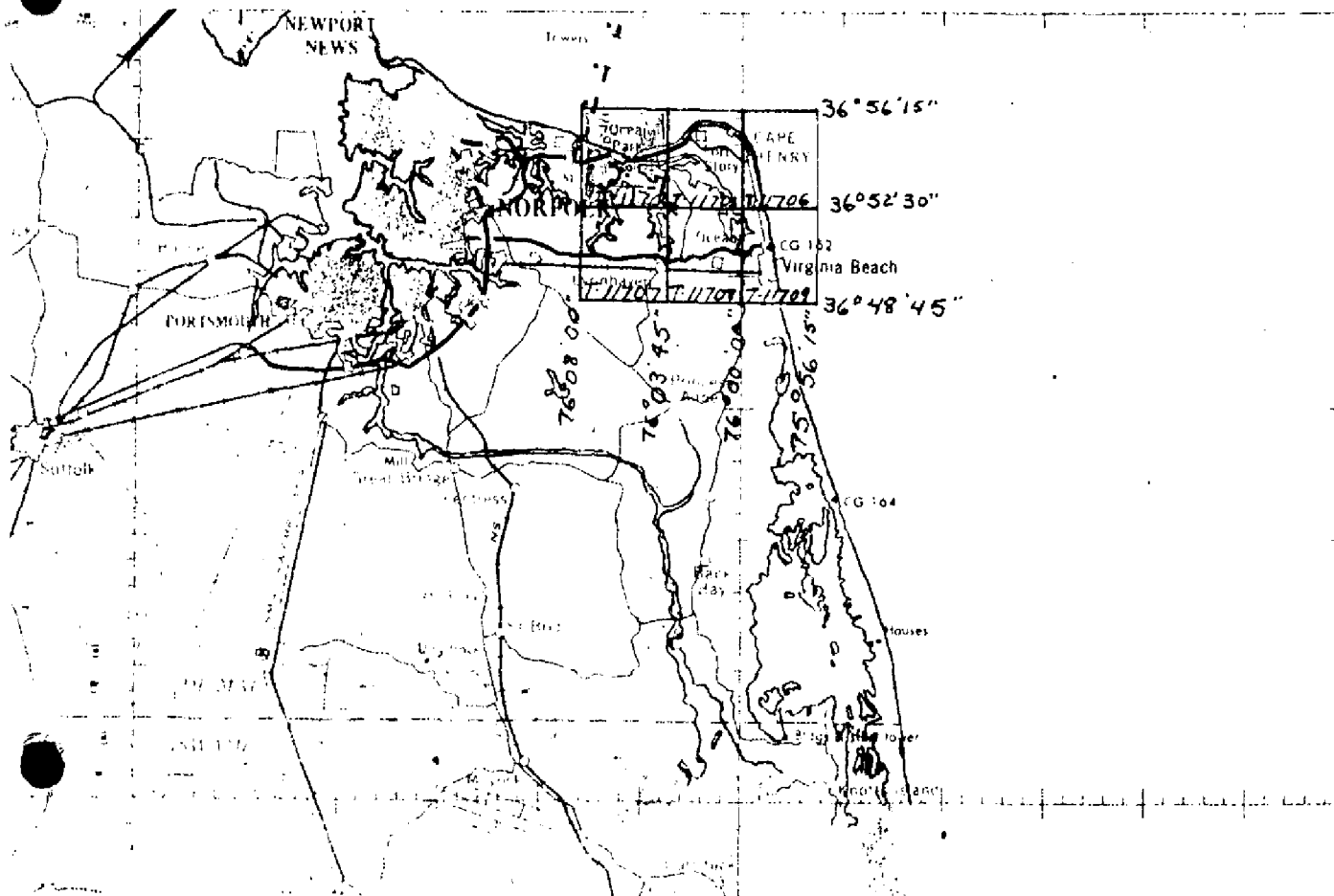
PROJECT PH-6209

LYNNHAVEN BAY VA.

SHORELINE MAPPING

SCALE 1:10,000

SHEET NO.	LINEAR MILES SHORELINE	AREA SQ. MILES
11704	18	5
11705	13	6
11706	4	15
11707	10	14
11708	5	14
11709	6	6



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11704

Shoreline map T-11704 is one of six similar maps in project 21051 (PH-6209) and is the northwesterly map in the project. It covers a portion of the shoreline of Lynnhaven Roads (Chesapeake Bay) at Lynnhaven Inlet, and Lynnhaven Bay. This is a Kelsh project in advance of hydrographic surveys which are being made in the same area. The field operations preceding compilation included field inspection, recovery and identification of horizontal control and pre-hydrographic identification of 21 temporary hydrographic stations. The Kelsh compilation was at a scale of 1:10,000, from which a film negative showing shoreline, alongshore features and photo-hydro stations was furnished for preparation of the hydrographer's boat sheet. 1:30,000 scale single-lens contact photographs, taken May 3, 1962, were used for compilation. Ratio (1:10,000 scale) photographs were subsequently provided for field edit and hydro support purposes. The manuscript is a vinylite sheet 3 3/4' in latitude by 4 1/4' in longitude which was scribed and reproduced on cronaflex following photogrammetric office review. One cronar positive and one cronar film negative of the reviewed manuscript are provided for record and registry.

PRELIMINARY
FIELD INSPECTION REPORT

MAPS T-11704, T-11705, T-11706,
T-11707, T-11708, and T-11709

PROJECT PH-6209
LYNNHAVEN BAY, VIRGINIA

3. Horizontal Control

Only the stations required for horizontal control identification were searched for.

Requirements for horizontal control identification as indicated on a special copy of the project diagram were met.

The following stations are lost or destroyed and reported on Form 526:

T-11704 VAN, 1941	T-11707 NONE
T-11705 NONE	T-11708 NONE
T-11706 EAST END TOWER (U.S.E.), 1925 PARCEL C TOWER B (U.S.E.), 1939	T-11709 HOLLIES, 1922 VIRGINIA BEACH, WATER TANK, 1909

9. Landmarks and Aids

All landmarks and aids for nautical charts are reported on Form 567.

All aids and landmarks which are not triangulation have been identified or photo located on the horizontal control identification contact prints. All visible aids and landmarks which are triangulation are also identified on the same contact prints.

14. Special Reports and Supplemental Data

Photo Party 723 as per instructions only completed the horizontal control and landmark identification. No shore-line inspection or recovery of vertical control was attempted.

Respectfully submitted,
28 September 1962

Ray M. Sundean
LT Ray M. Sundean
Chief of Party

FIELD INSPECTION REPORT
PROJECT PH-6209

2. AREAL FIELD INSPECTION

This report is submitted for the entire project. The areas covered by the survey are: Lynnhaven Bay and its tributaries, Lynnhaven Roads and the outer coast from Cape Henry to Rudee Inlet.

The field work was accomplished by personnel from Photo Party 720 during the period 17 October to 16 November 1962.

Field work by Photo Party 720 was restricted to work as per Instructions - FIELD - Project PH-6209 - Lynnhaven Bay, Virginia - Shoreline Mapping - Supplement 1 dated 16 October 1962, except section 4.01 which was completed only in the Western Branch of Lynnhaven Bay.

The area is thickly settled and is changing daily as a result of new construction by real estate developers.

The photographs for the project consisted of 1962 single lens ratio prints of 1:15,000 scale. The photographs were not quite as crisp and sharp as have been used on some other projects.

Two golf courses fall within the project; namely Princess Anne Golf Course and Cavalier Yacht and Golf Club. No limit lines have been delineated on the field photographs because only the fairways belong to the golf courses; all other property around the cleared fairways are private property.

4. VERTICAL CONTROL

There are six Tidal Bench Marks within the area. Bench Marks No's 1, 3, 4, and 5 were recovered in good condition as described. Bench Mark G 289, 1942 has been destroyed; the old Norfolk and Southern Bus Station has been torn down and a new Pure Oil service Station stands in its place. Bench Mark T 288, 1942 was not searched for due to the inadequacy of the furnished description.

The four TBM's recovered have been pricked on contact photograph 62-S-3260.

5. DRAINAGE:

No drainage delineation was made. This phase was omitted due to verbal instructions from Washington Office. In most cases the drainage is obscured by a dense growth of trees after it leaves the marsh, making it most difficult to be delineated.

6. WOODLAND COVER

Woodland cover has been classified in accordance with Topographic Manual, Part II (reference 5433).

7. SHORE LINE AND ALONGSHORE FEATURES

The outer shoreline from Lynnhaven Roads to Rudee Inlet is a wide white sand beach bound ed by a dense growth of low scrub pine. According to local information, the width of this beach is very unstable and changes with the tides and storms. The degree of change often depends on the severity and duration of the tides and storms.

The mouth of Lynnhaven Bay for the most part is foul with sand and oyster bars with a fairly deep water channel that will accomodate boats with a draft of up to 4 feet. This channel splits about 1500 feet above the bridge and goes to the Eastern and Western branches of the bay. The upper reach of the bay is very shoal (often less than 1 foot of water) and is foul with stakes.

Broad Bay, Linkhorn Bay, and Crystal Lake have deep water (5 to 10 feet) with a reported 4 to 7 feet in the narrows and Rainey Gut, as both have been dredged in the last 6 months.

The outer shore line was not inspected from Seaward. The MHW Line was delineated by reference measurements from identifiable objects along the shore. Lynnhaven Inlet, Bay, and its tributaries were inspected by running an outboard skiff as close inshore as possible without running aground, and comparing the shoreline with the photographs.

8. OFFSHORE FEATURES

The only offshore feature noted was the New Chesapeake Bay Bridge on Sheet T-11704.

9. LANDMARKS AND AIDS

Twelve aids to navigation have been redommended for charting on Form 567. Ten of the aids were located by theodolite cuts from photo points; Day Beacon No. 2 was pricked direct, and Cape Henry Light had been located previously by triangulation.

Seven Aids to Navigation have been recommended to be deleted from the Charts. All have been reported on Form 567.

All nautical and aeronautical landmarks were identified and reported by Photo Party 723. See report submitted by Lt. Ray M. Sundean, Chief of Photo Party 723, dated 28 September 1962.

10. BOUNDARIES, MONUMENTS, AND LINES

Not applicable.

11. OTHER CONTROL

Photo hydro stations were selected and identified in the Western Branch of Lynnhaven Bay.

12. OTHER INTERIOR FEATURES

All roads to be mapped have been classified in accordance with Photogrammetric Instructions No. 56 dated 2 January 1962.

All buildings which are of landmark value have been circled on the field photographs.

13. GEOGRAPHIC NAMES

A systematic geographic names investigation was not required. No discrepancies in charted names or new names were noted during field inspection.

14. SPECIAL REPORT AND SUPPLEMENTAL DATA

See Descriptive Report submitted by Lt. Ray M. Sundean, Chief of Photo Party 723, dated 28 September 1962. Lt. Sundean reported on Items 3, 9, and 14.

Submitted:
12-26-62

Robert S. Tibbetts
Robert S. Tibbetts
Surveying Technician

48

ADDENDUM TO FIELD INSPECTION REPORT
PROJECT PH-6209
LYNNHAVEN BAY, VIRGINIA

GENERAL STATEMENT

In general all phases of field inspection has been completed for the project. Lt. Sundean completed the identification of control and identification of Nautical Landmarks. The writer completed the remainder.

TIDAL BENCH MARKS

Only one set of tidal bench marks was recovered in the area. The field inspector does not know if any other tidal marks exist as this one set was all that was furnished.

ROADS

All roads have been classified throughout the project.

SHORELINE INSPECTION

This phase has been completed throughout the project except for the outside shoreline within Fort Story. This portion was not done due to construction by bulldozers pushing up sand dune lines.

BUILDINGS

This has been completed for the project.

PHOTO-HYDRO

The preselection of photo-hydro stations was completed only in the Western branch of Lynnhaven Bay.

REFERENCE INSTRUCTIONS

The original instructions for the project were not furnished the writer.

Submitted:
11 January 1963

Robert S. Tibbetts
Robert S. Tibbetts
Surveying Technician

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-11704

PROJECT NO. PH-6209

SCALE OF MAP 1:100,000

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		DATUM CORRECTION	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)	
CENTER 1960	Vol II P. 678	NA 1927	36° 54' 55" 2.51 76 07 57.304				1703.2 1294.7		
"	"	"	220, 587.55 FT. 2, 692, 461.66 FT.						
HYGIEA INN 1929	G.P's. Page 241	"	36° 54' 45" 746 76 04 14.373				1410.2 355.8		
"	P.C's. P. 101	"	220, 076.32 FT. 2, 710, 178.91 FT.						

AEROTRIANGULATION REPORT
LYNNHAVEN BAY, VA.
PH-6209

January 4, 1963

This project covers an area comprised of six T-sheets (T-11704 thru T-11709). Photographic coverage used in this bridging operation consisted of three East-West flight lines at a scale of 1:30,000 and a North-South flight line at a scale of 1:20,000. Inasmuch as the side lap of the northernmost flight line and the side lap of the southernmost flight line were such that wing control points from these two flight lines were adequate to control the central flight line, only the outer flight lines were bridged. The smaller scaled flight line was tied to common triangulation points and bridge points used in the East-West flight lines.

Adequate ties between Strips I, II, and III were made at their junctions through common triangulation and bridge pass points. Closures on these common points indicate accuracy requirements are met for 1:10,000 scale mapping standards.

As a further check on the accuracy of the bridging operation a two-model bridge, using the central East-West flight line, was set on the C-8 Stereoplanigraph with adequate checks resulting between Strips I and III in the area (see Aerotriangulation sketch for location of this check bridge).

Control stations used for making adjustments:

Strip I

- (1) Little Creek Coast Guard Cupola
- (2) Center
- (3) Hygeia Inn
- (4) Cape Henry Lighthouse (1869)
- (6) Parcel C, Tower A, (USE)

Strip II

- (10) Decca
- (6) Parcel C, Tower A, (USE)
- (4) Cape Henry Lighthouse (1869)

Strip III

- (12) Norfolk W. Base
- (11) Norfolk E. Base
- (14) WTAR Radio Tower No. 1
- (9) Virginia Beach Municipal Water Tank

A

The bridging was completed on the Wild A-5 Stereoplotter with all horizontal control points being held satisfactorily with the following exceptions:

- .01 Strip I
Center (1960) The image of this station was extremely poor and could not be positively identified on the diapositives. Its substitute station held within accuracy requirements.

Little Creek Amphibious Base Tank (1952) Substation. It was impossible to discern the low hedge used as the substitute station.

Hygeia Inn (1929) The image of the substitute station was fair and it is assumed that the error in position is attributable to a faulty field measurement of azimuth with a portion of the error due to distance measurement (line of traverse was impaired by a portion of a building).
- .02 Strip I and II
Cape Henry Lighthouse (NEW) Substitute station. Image point of substitute station (bush) was very poor.
- .03 Strip III
 None.

The following stations were office-identified in addition to the triangulation stations identified by the field.

Camp Pendleton, South Rifle Range Tower (1955)

Camp Pendleton, North Rifle Range Tower (1955)

Both stations held in the bridging operation.

Landmarks

Supplementing Cape Henry Lighthouse (old & new) these landmarks were incorporated in the bridging procedure:

Virginia Beach Coast Guard Radio Tower

Virginia Beach Municipal water tank (1953)

WBGF Radio Tower

Virginia Beach Mayflower Apartment Bldg. W. Light (1953)

Cavalier Hotel Cupola (1929)

Virginia Beach Mayflower Apartment Bldg. E. Light (1953)

X

Submitted by:

Wallace Heinbaugh
Wallace Heinbaugh

Approved by:

Everett H. Ramey
Everett H. Ramey, Chief
Aerotriangulation Section

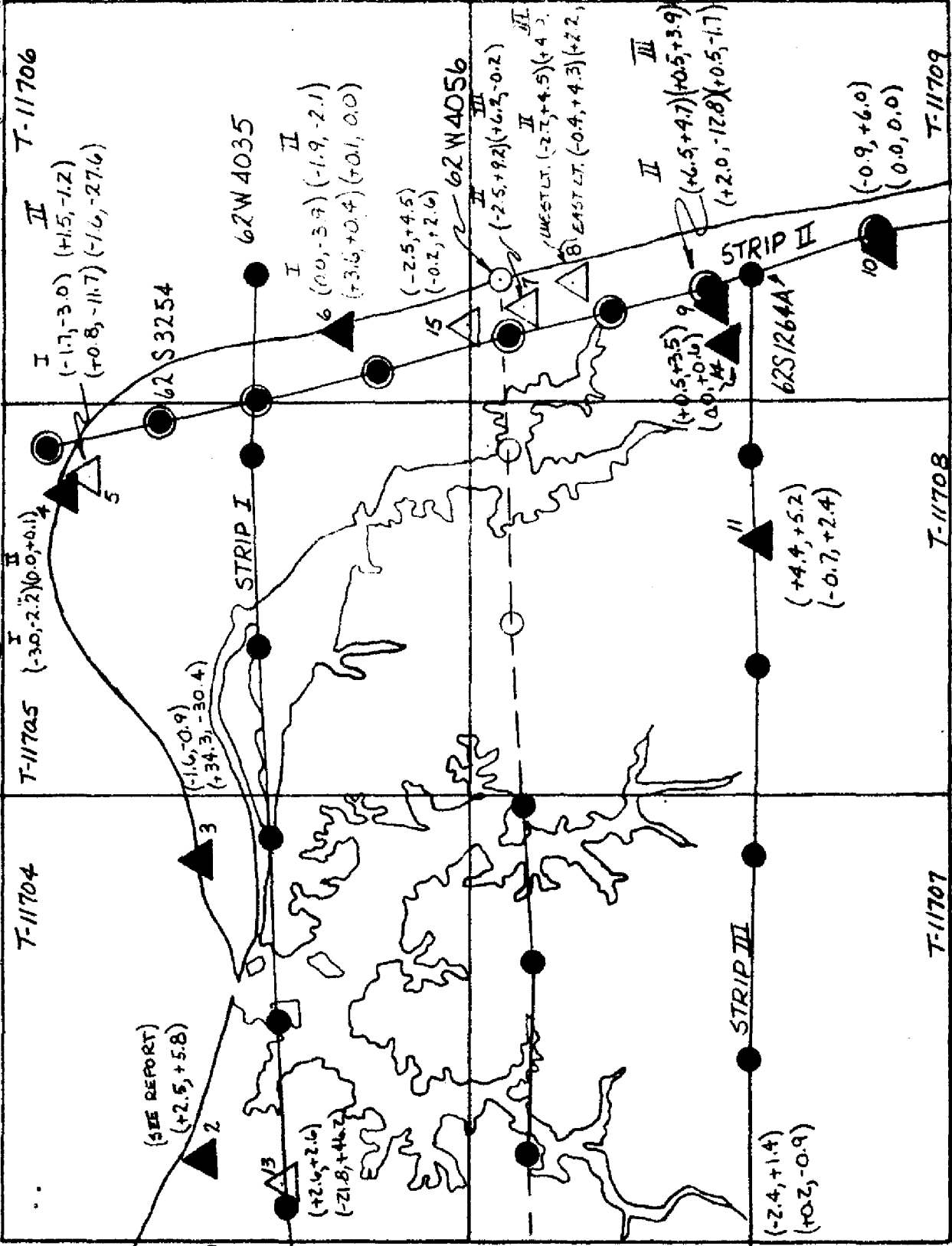
56-15

76-00-00

76-03-45

76-08-00

56-56-15



LYNNHAVEN BAY, VA
PH-6209

36-08-45

LYNNHAVEN BAY, VA.

PH-6207

LEGEND

○ 1:20,000 SCALE SINGLE-LENS PHOTOGRAPHS

○ 1:30,000 SCALE SINGLE-LENS PHOTOGRAPHS

● PHOTOGRAPHY USED IN BRIDGING

▲ CONTROL TRIANGULATION

△ CHECK TRIANGULATION

△¹ LITTLE CREEK NAVAL AMPHIB
BASE, TANK 1952

△² CENTER

△³ HYGEIA INN, 1929

△⁴ CAPE HENRY L. H. (1869)

△⁵ CAPE HENRY L. H. (NEW)

△⁶ PARCEL C TOWER A (USE)

△⁷ CAVALIER HOTEL CUPOLA, 1929

△⁸ VIRGINIA BEACH MAYFLOWER
APT. B E.L.T. - W.L.T.

△⁹ VIRGINIA BEACH MUN. W.T., 1953

△¹⁰ DECCA

△¹¹ NORFOLK E. BASE, 1931

△¹² NORFOLK W. BASE, 1931

△¹³ LITTLE CREEK C.G. BASE CUPOLA

△¹⁴ WTAE RADIO TOWER, No. 1, 1937

△¹⁵ HOLLIS TOWER "A"

NOTE: DIVERGENCE FROM PREVIOUSLY DETERMINED COORDINATES
(N, Y) SHOWN IN PARENTHESES IN THAT ORDER.

COMPILATION REPORT T-11704

31. DELINEATION

The Kelsh plotter was used.

The field inspection was generally adequate. The diapositives, 62-W-4038 thru 4041, were not of usual standard. These photographs had sun spots, poor contrast, were generally flat, and of poorer quality than usually furnished.

No roads were shown, except bridges, in accordance with the layout submitted by the Washington Office showing limits of delineation. Notation on layout states "This area has been revised by the Chart Division for a new chart by updating quadrangles (1952-1954) with 1960-1962 photos. Compile back to red line (i.e. 1/2" or so) only, for tie purposes".

32. CONTROL

See bridge report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was generally adequate and delineation was done accordingly. The mean high water line at Cape Henry was not inspected due to construction (see addendum to Field Inspection Report), but was delineated nevertheless. The photographs show this stretch of shoreline to be very indefinite and it should be located by the field editor.

The low water, shallow and shoal lines were delineated by office interpretation of the photographs. All alongshore details, such as piers indicated by the field inspection have been shown.

36. OFFSHORE DETAILS

A building has been located offshore as photo-hydro station 26.

37. LANDMARKS AND AIDS

Five aids to navigation have been located and are reported on form 567. Numerous aids to be deleted have been reported by the field inspector and are submitted on form 567.

There are no landmarks.

38. CONTROL FOR FUTURE SURVEYS

Twenty-one photo-hydro stations have been located and are listed under item 49 with descriptions for each.

39. JUNCTIONS

Junction has been made with T-11705 to the east and T-11707 to the south. Project limits to the north and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. CAPE HENRY quadrangle, 1:24,000 edition of 1955. The comparison is generally favorable except for the addition of part of the new Chesapeake Bay bridge near the western limits of the manuscript.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 481, scale 1:20,000, 11th edition, Dec. 3, 1962. The chart appears to be in good agreement with the manuscript.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Irving I. Saperstein
Irving I. Saperstein
Cartographer (Photo)

APPROVED AND FORWARDED 25 JUL 1963

V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

T-11704

48. Geographic Names List

- Avery Island
- Bayville Creek
- Broad Bay
- Brock Cove
- Chesapeake Beach
- Dix Inlet
- Eagles Nest Point
- Eastern Branch Lynnhaven River
- Fish House Island
- Garaway Point
- Inlet
- Keeling Drain
- Lynnhaven Bay
- Lynnhaven Colony
- Lynnhaven Inlet
- Lynnhaven Roads
- Lynnhaven Shores
- Long Creek
- Mapps Point
- Ocean Park
- Parker Cove
- Pleasure House Creek
- Pleasure House Point
- Poorhouse Cove
- Thoroughgood Cove
- Western Branch Lynnhaven River
- Witch Duck Bay
- Witch Duck Point

George W. Ball
 Geographic Names Section
 6 February 1964

49. NOTES FOR THE HYDROGRAPHER

The following is a list of photo-hydro stations with a description of each:

- 01 - End of pier
- 02 - End of pier
- 03 - End of pier
- 04 - Number not used
- 05 - End of pier
- 06 - End of pier
- 07 - End of pier
- 08 - End of pier
- 09 - End of pier
- 10 - End of pier
- 11 - End of pier
- 12 - End of pier
- 13 - End of pier
- 14 - End of pier
- 15 - End of pier)
- 16 - End of pier)
- 17 - End of pier)
- 18 - End of pier)
- 19 - End of pier)
- 20 - End of pier)
- 21 - End of pier)
- 22 - End of pier)

fall on T-11707

49. NOTES FOR THE HYDROGRAPHER (continued)

23 - End of pier

24 - Northwesterly corner

25 - Center of end of pier

26 - Center of building

27 - Center of pier

28 - End of pier

29 - End of pier

30 - End of pier

FORM 182 (3-61) 50. PHOTOGRAMMETRIC OFFICE REVIEW OF U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY T-11704 COMPILATION

1. PROJECTION AND GRIDS WHS	2. TITLE WHS	3. MANUSCRIPT NUMBERS WHS	4. MANUSCRIPT SIZE WHS
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CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) XX	
	7. PHOTO HYDRO STATIONS WHS	8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES MMS	10. PHOTOGRAMMETRIC PLOT REPORT W.O.
	11. DETAIL POINTS KELSH (I.I.S.)			

ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE WHS	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. WHS	15. BRIDGES WHS
	16. AIDS TO NAVIGATION WHS	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES WHS	
	19. OTHER ALONGSHORE CULTURAL FEATURES WHS			

PHYSICAL FEATURES	20. WATER FEATURES WHS		21. NATURAL GROUND COVER WHS	
	22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX	
	24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX	
	26. OTHER PHYSICAL FEATURES WHS			

CULTURAL FEATURES	27. ROADS XX	28. BUILDINGS WHS	29. RAILROADS XX
	30. OTHER CULTURAL FEATURES WHS		

BOUNDARIES	31. BOUNDARY LINES XX	32. PUBLIC LAND LINES XX
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MISCELLANEOUS	33. GEOGRAPHIC NAMES WHS		34. JUNCTIONS WHS
	35. LEGIBILITY OF THE MANUSCRIPT WHS	36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT WHS
	38. FIELD INSPECTION PHOTOGRAPHS WHS		39. FORMS WHS
	SIGNATURE OF REVIEWER W. H. Shearouse		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT M. M. Slaney

40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.

SIGNATURE OF COMPILER Robert Wagner	SIGNATURE OF SUPERVISOR M. M. Slaney
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Field Edit Report, T-11704

No Field Edit Report has been received.

Questions referred to the field editor were satisfactorily answered. That portion of the mean high-water line referred to in item 35 as being "under construction" was delineated from measurements furnished by the field editor.

Tampa

REVIEW REPORT T-11704
SHORELINE
JANUARY 6, 1964

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8301	1:20,000	1944
T-8302	1:20,000	1944

This map supersedes the listed prior surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

U.S.G.S. - CAPE HENRY, VIRGINIA	1:24,000	1955
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Marsh island in mouth of Western Branch Lynnhaven River (approximate latitude 36°53.5', longitude 76°06.2) no longer exists; now uncovers at low-water only.

Marsh island at approximate latitude 36°53.7', longitude 76°05.5' no longer exists.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8724, 1:10,000 scale, dated October 1, 1962. This boat sheet does not show soundings for approximately one mile along the Lynnhaven Roads (Cape Henry) shoreline at eastern limits.

Due to field edit corrections slight changes were made in delineation of shoreline of map manuscript in the vicinity of latitude 36°54.6', longitude 76°05' (Inlet and Lynnhaven Shores). These corrections should be made on the hydrographer's smooth sheet.

Boat sheet does not show marsh islet in Witch Duck Bay at latitude 36°53', longitude 76°07.3'.

No piers are shown on boat sheet.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 481, 11th edition, revised July 22, 1963. The following differences were noted:

Several piers shown on the manuscript do not appear on the chart.

Pier on chart at approximate latitude $36^{\circ}52.9'$, longitude $76^{\circ}07.05'$, is not visible on photographs 62-W-4039 or 4040.

Pier on chart, north side of channel near Daybeacon 10, at approximate latitude $36^{\circ}54.26'$, longitude $76^{\circ}04.95'$, does not appear on photographs 62-W-4038 or 4039.

Pier on chart on west side of cove at approximate latitude $36^{\circ}53.2'$, longitude $76^{\circ}06'$, is not visible on photographs 62-W-4038, 4039, 4051 or 4052.

Lynnhaven Inlet, East and West Obstruction Lights and Lynnhaven Roads Fishing Pier Light, as well as Long Creek Daybeacons 6 and 9, appear on the chart but not on the manuscript. Form 567 for deletions was submitted by J. K. Wilson under date of November 13, 1962.

Overhead cable shown on chart at highway bridges near west entrance to Long Creek are not on the manuscript. No field inspection was furnished for the feature nor can supporting poles be seen on photographs 62-W-4038 or 4039.

Chart 481 lacks approximately .3 mile covering area of manuscript along south limits. This part was compared with 1:80,000 scale chart 1227, 6th edition, revised August 6, 1962.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Future surveys should check for new man-made canals in connection with suburban development and dredged and deepened areas that are presently marsh and lying at the inshore ends of creeks and coves.

Also, existence of the overhead cable discussed under item 65 should be verified.

Reviewed by:

William H. Shearouse
William H. Shearouse

22 APR 1964

Approved by:

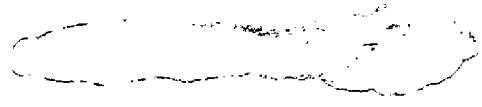
V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

Approved by:

Charles Lerner
Chief, Cartographic Branch *l.c.t.*

L. F. Woodcock
Chief, Photogrammetry Division

Chief, Chart Division



U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC REVIEW BRANCH

NONFLOATING AIDS ~~OR~~ **PERMANENT MARKS** FOR CHARTS

TO BE CHARTED } STRIKE OUT TWO
~~TO BE CHANGED~~
~~TO BE DELETED~~ Tampa District Office January 23, 19 61

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

The positions given have been checked after listing by

I. I. Saperstein

V. Ralph Sobieralski

Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED	
				LATITUDE*		LONGITUDE*					
				D. M.	SEC.	D. M.	SEC.				
	VIRGINIA										
DAYB 7		LYNNHAVEN INLET		36 54	14.30 847	76 05	02.06 51	S.A. 7-11704	NOV. 11 1962	I	481
DAYB 10		LONG CREEK		36 54	14.76 455	76 04	54.05 1336			I	
DAYB 12				36 54	15.21 467	76 04	44.47 1101			I	
DAYB 14				36 54	14.53 446	76 04	37.52 929			I	
DAYB 17				36 54	14.72 392	76 04	31.75 766			I	

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

~~NO BE CHANGED~~
~~NO BE REVISED~~
TO BE DELETED

STRIKE OUT TWO

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Norfolk

November 13, 19 62

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

The positions given have been checked after listing by Robert S. Tibbetts

Joseph K. Wilson

Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE*		LONGITUDE*								DATUM
				°	'	°	'							
Virginia	✓	LYNNHAVEN INLET EAST OBSTRUCTION LIGHT		36 54.4	76 05.4			11/11/62				481		
	✓	LYNNHAVEN INLET WEST OBSTRUCTION LIGHT		36 54.4	76 05.6			11/11/62				481		
	✓	LYNNHAVEN INLET LONG CREEK DAYBEACON NO. 6		36 54.3	76 05.1			11/11/62				481		
	✓	LYNNHAVEN INLET LONG CREEK DAYBEACON NO. 9		36 54.3	76 04.9			11/11/62				481		
		BROAD AND LINKHORN BAYS		36 53.6	76 01.4			11/11/62				481		
		BROAD AND LINKHORN BAYS DAYBEACON NO. 7		36 53.4	76 01.1			11/11/62				481		
	✓	LYNNHAVEN INLET, LYNNHAVEN ROADS FISHING PIER LIGHT		36 55.0	76 04.7			11/11/62				481		
		NOTE: all names are preceded by CHESAPEAKE BAY, LYNNHAVEN ROADS												

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

TIDE COMPUTATION

Spring 2.04

PROJECT NO. Ph-2209 T. 11704

Mean range 2.0
Ratio of ranges HW - 0.5
0.0

Time and date of exposure 12:30 May 3, 1962 Reference station HAMPTON ROADS
Date of field inspection Lynnhaven Inlet (RR bridge) Subordinate station

	Time		Height feet	Height x Ratio of ranges	Time		Time h. m.
	h.	m.			h.	m.	
High tide	7	46	2.875	2.3	8	20	14 25
Low tide	13	30	-0.4	-0.4	7	46	- 55
Duration of rise or fall	5 44		2.7		7 46		13 30

	h.	m.	feet	Height x Ratio of ranges	feet	Time h. m.	Photo. No.
Time H. T. or L. T. Required time Interval	13	30	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	-0.4 -0.2 -0.2	Feature bares Stage of tide above MLW Feature above MLW		62W4039
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		

Computed by R. M. [Signature] Checked by M. S. [Signature]