

11151

Diag. Cht. No. 1206.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-114(53) Office No. T-11151

LOCALITY

State Massachusetts

General locality Salisbury Beach

Locality Blackwater River to Merri-
mack River

194/52-53

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party
I.R.Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE September 17, 1958

11151

W.A.R.

41
7112-1000
731

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Tampa Photogrammetric Office
P O Box 1689 Tampa Florida

POST-OFFICE ADDRESS:

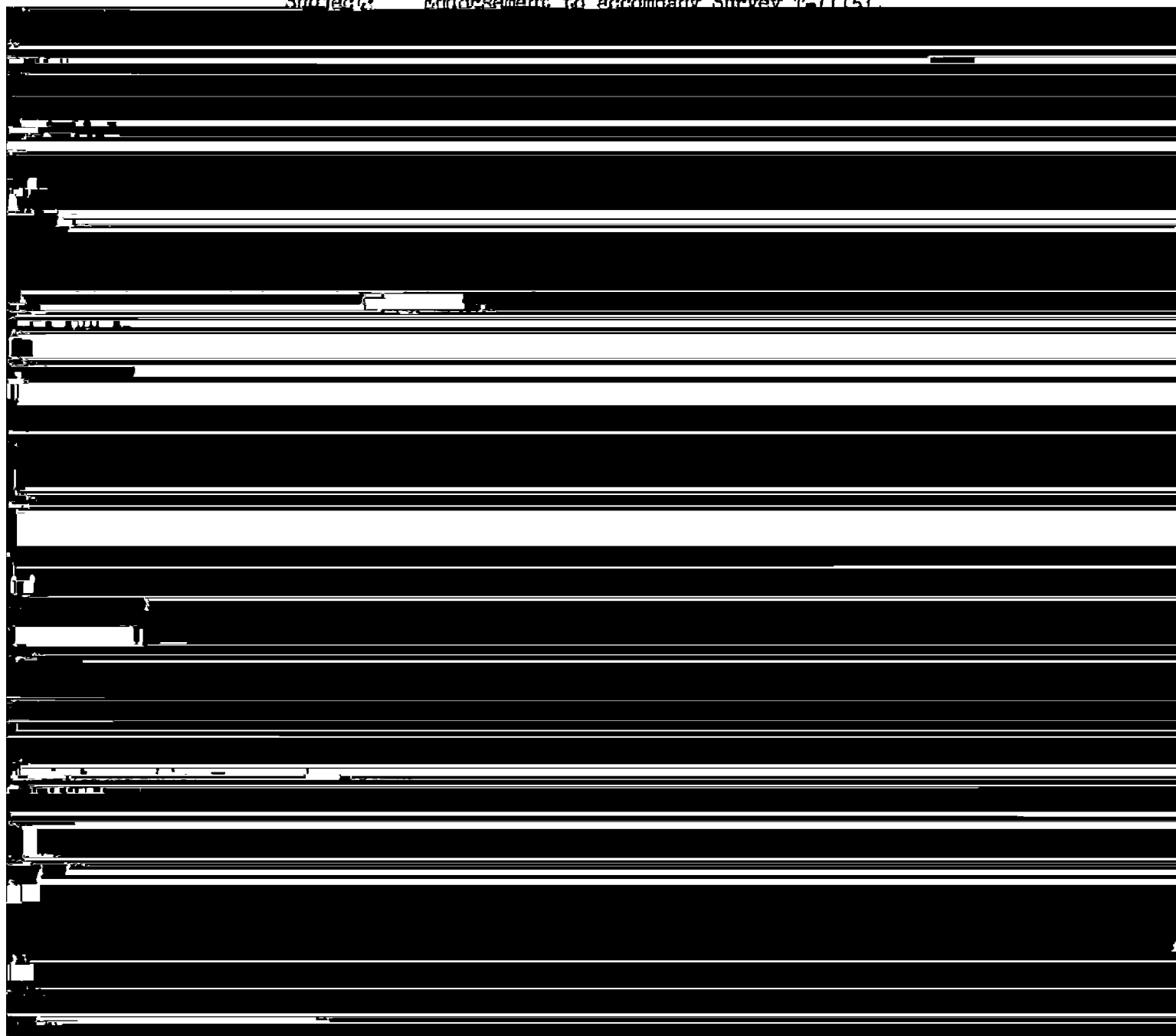
TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

11 June 1953

To: Chief, Division of Photogrammetry
U. S. Coast and Geodetic Survey
Department of Commerce Building
Washington 25, D. C.

Subject: Endorsement to accompany Survey T-71151



PRELIMINARY

COMPILATION REPORT T-11151

31. DELINEATION.

The shoreline, foreshore details and photo-hydro points only, have been shown. This was done due to the hydrographic party being in urgent need of the map manuscript in order to start its survey. The remainder of the delineation will be completed when the manuscript and pertinent data are returned from the Washington Office. The complete compilation report will be written at that time.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate as a whole. Some difficulty was encountered while delineating the M.H.W.L. near the inshore ends of the rock jetties at the mouth of the Merrimack River. After much stereoscopic examination and study, it is thought this shoreline is in its true position. Portions of the rock jetties gave the appearance of being under water at high tide. This should be checked in order that such areas may be depicted with a dashed line. There were no notations on the field photographs pro or con as to the elevation of these jetties above M.H.W.

37. LANDMARKS AND AIDS.

49. NOTES FOR THE HYDROGRAPHER.

PHOTO-HYDRO STATIONS

- PRE 5101 - Center of ditch intersection, north shore of river about 800 feet east of sand spit.
- SAL 5102 - Southernmost of two small cedars northwest of rock outcrop.
- DOG 5103 - Ditch intersection north side of river, east side of Fox Island Creek.
- ABE 5104 - Most northerly pole in group of eight poles (at time of photograph, the holes were dug and the poles were on the ground. They have been erected and the location checked by planetable)
- CAB 5105 - Apex of roof of Coast Guard Lookout Tower.
- DOL 5106 - Center of outer dolphin at Coast Guard Pier. (6 dolphins)
- PUP 5107 - Center of center cupola at bath house.
- JAP 5108 - East gable at maintenance building.

TOPOGRAPHIC STATIONS

SALISBURY BEACH WATER TANK, 1953. (from 524)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE

TO BE CHARTED

Tampa Photogrammetric Office, Tampa, Fla. 5 June 1953

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

The positions given have been checked after listing by

NEEDLETON E. SMITH, JR.

J. E. Kautz

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of celestial bodies shall be determined by the observer.

PRELIMINARY

Form T-2

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-11151

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads XX 28. Buildings XX 29. Railroads XX 30. Other cultural features XX

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay XX 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.

40. Jesse A. Giles Reviewer William A. Rasure Supervisor, Review Section or Unit
William A. Rasure

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

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

Compiler

Supervisor

43. Remarks:

M-2623-12

NAUTICAL CHARTS BRANCH

SURVEY NO. _____

Record of Application to Charts

[illegible]

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.

DATA RECORD

T - 11151

Project No. (II): **Ph-114 (53)** Quadrangle Name (IV):Field Office (II): **Newburyport, Mass.**Chief of Party: **E. H. Kirsch**Photogrammetric Office (III): **Tampa, Fla.**Officer-in-Charge: **Ira R. Rubottom**

Instructions dated (II) (III): **13 March 1953**
 Supp. No. 1 **28 March 1953**
 " " 2 **30 April 1953**
 " " 3 **6 May 1953**
 " " 4 **26 May 1953**

Copy filed in Division of
 Photogrammetry (IV)

Supp. No. 5 - **25 June 1953**
 (III) - **20 February 1953**

Method of Compilation (III): **Graphic**Manuscript Scale (III): **1:10,000**Stereoscopic Plotting Instrument Scale (III): **Inapplicable**Scale Factor (III): **None**

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **4/10/58**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**Vertical Datum (III): **M.H.W.**

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

Reference Station (III): **SAND 1943**Lat.: **42°50'43".910** (1355.0m) ✓ Long.: **70°49'01".292** (29.3m) ✓

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

Y=

X=

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

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

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

DATA RECORD

Field Inspection by (II): **J. C. Lajoie**
H. R. Spies
L. F. Beugnet
 Date: **March 1953**
to
October 1953

Planetable contouring by (II): **Inapplicable**
 Date:

Completion Surveys by (II): **Inapplicable**
 Date:

Mean High Water Location (III) (State date and method of location): **20 August 1953**
Air Photo Compilation

Projection and Grids ruled by (IV): **Jack Allen (W. O.)**
 Date: **9 April 1953**

Projection and Grids checked by (IV): **H. D. Wolfe (W. O.)**
 Date: **10 April 1953**

Control plotted by (III): **I. I. Saperstein**
 Date: **7 May 1953**

Control checked by (III): **R. J. Pate**
 Date: **7 May 1953**

Radial Plot ~~or Stereoscopic~~
~~by (III):~~ **M. M. Slavney**
 Date: **17 May 1953**

Planimetry
 Stereoscopic Instrument compilation (III): **Inapplicable**
 Contours
 Date:
 Date:

Manuscript delineated by (III): **R. E. Smith**
 Date: **20 Jan. 1954**

Photogrammetric Office Review by (III): **J. A. Giles**
 Date: **27 Jan. 1954**

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

Department of Agriculture, by Robinson Aerial
 Camera (kind or source) (III): Surveys, Inc. - DPP
 Fairchild K-17 6" Metrogon Lens - Camera J
 PHOTOGRAPHS (III)

	Number	Date	Time	Scale	Stage of Tide
DPP 9K	98-99	8-26-52	1234	1:10,000	+5.8
" "	100	"	1235	"	"
" "	101-102	"	1236	"	"
" "	103	"	1237	"	"
" 14K	74-75-76	10-20-52	1059-1101	"	+7.6
" "	77	"	1101	"	"
" "	89-94 incl.	"	1313-1318	"	+7.7
"	53-J-283-284	4-22-53	0849-0850	"	"

Tide (III)

Computed from the predicted tide table

Reference Station: PORTLAND MAINE
 Subordinate Station: MERRIMACK RIVER ENTRANCE
 Subordinate Station: NEWBURYPORT MERRIMACK RIVER

Ratio of Ranges	Mean Range	Spring Range	Time
-	8.9	10.1	
8.00	0.9	8.0	+0:25
8.20	0.9	7.8	+0:50

Washington Office Review by (IV): *Lena T. Stevens*

Date: 1 Oct. 1954

Final Drafting by (IV): *P. C. Lach*

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 7

Shoreline (More than 200 meters to opposite shore) (III): 45

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 26

Recovered: 19

Identified: 11

Number of BMs searched for (II): 4

Recovered: 4

Identified: 4

Number of Recoverable Photo Stations established (III): 1

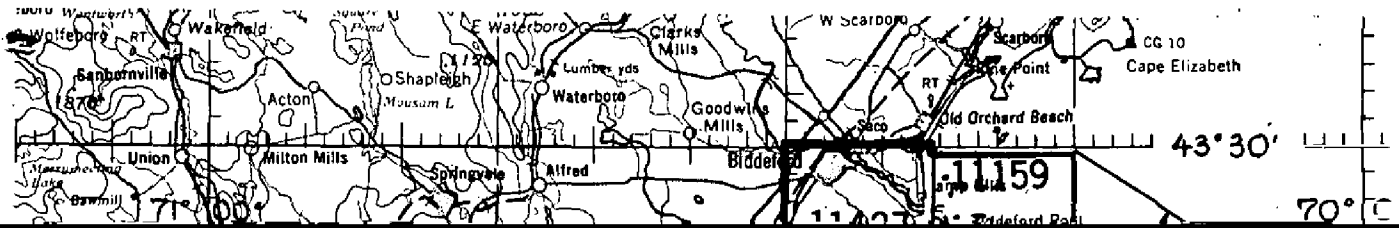
Number of Temporary Photo Hydro Stations established (III): *21

Remarks: *Thirteen (13) of these were established by the field party
 in addition to those identified and established on the
 preliminary survey.

Summary to Accompany T-11151

Field instructions were issued for Ph-114 on 13 March 1953 to provide shoreline and control for inshore hydrographic surveys and to provide standard shoreline manuscripts for chart compilation. The hydrographic phase of this surveying was accomplished in the summer of 1953 under instructions for project CS-355 (Plum Island Sound to Portsmouth Harbor) and CS-361 (Cape Porpoise Harbor).

SHORELINE MAPPING PROJECT PH-114
BIDDEFORD POOL, MAINE TO CAPE ANN, MASS.



THE FIELD INSPECTION REPORT
is filed with Report for T11148
~~WAS SUBMITTED SEPARATELY.~~

Final COMPILATION REPORT T-11151

PHOTOGRAMMETRIC PLOT REPORT.

This report submitted separately. (*Is now apart of T11147*)
292.

31. DELINEATION.

The manuscript was compiled by the graphic method.

The following photographs were of very poor scale:

DPP-9K-99 through DPP-9K-103
 53-J-283 and 53-J-284

The field inspection was incomplete in relation to the vegetation but with stereoscopic examination and study, the delineation is believed to be correct.

Wherever the field inspection did not agree with the 1953 photography it has been disregarded.

32. CONTROL.

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA.

None

34. CONTOURS AND DRAINAGE.

Contouring inapplication.

The drainage has been delineated according to the photographs.

35. SHORELINE AND ALONGSHORE DETAILS.

Reference Item 35 of Preliminary Compilation Report.

All changes in the shoreline made after the preliminary

since none were indicated by the field party nor could they be determined by office interpretation of the photographs.

See Review Sheet. w.a.q.

36. OFFSHORE DETAILS.

No statement.

37. LANDMARKS AND AIDS.

Reference Item 37 of Preliminary Compilation Report.

38. CONTROL FOR FUTURE SURVEYS.

Reference Item 38 of Preliminary Compilation Report. Additional photo-hydro stations, located by the field party, are listed under Item 49 with their descriptions.

39. JUNCTIONS.

T-11149 on the north - in agreement

T-11150 on the west - in agreement

T-11152 on the south - in agreement

No survey on the east - bounded by the Atlantic Ocean

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

41. STATE BOUNDARIES.

The state boundary line between NEW HAMPSHIRE and MASSACHUSETTS could not be delineated because of insufficient information.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with Army Map Service Quad-range, NEWBURYPORT EAST, MASSACHUSETTS-NEW HAMPSHIRE, scale 1:25,000, dated 1944. The two were in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 331 (Harbor Chart), scale 1:20,000, dated July 1939 (12th Edition), corrected to 17 September 1951. The two were in fair agreement.

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:

Ira R. Rubottom
Ira R. Rubottom,
Chief of Party

48. GEOGRAPHIC NAME LIST.

All names shown are base map names. No additions or deletions were submitted by the field inspector.

ALLEN ROCK ✓

ATLANTIC AVENUE ✓

ATLANTIC OCEAN ✓

BEACH ROAD ✓

BLACK ROCK CREEK ✓

BLACKWATER RIVER ✓

BOSTON AND MAIN RAILROAD ✓

BRIDGE ROAD ✓

BROWNS POINT ✓

BUTLERS TOOTHPICK ✓

CUSHING ✓

DOCK LANE ✓

FERRY ROAD ✓

FOX ISLAND CREEK ✓

HOPE CHAPEL ← O.K.; location?

JOPPA ✓

LONG HILL CEMETERY ✓

MAJORS ROCK ✓

MASSACHUSETTS ✓

MERRIMACK RIVER ✓

MERRILL CREEK ✓

NEW HAMPSHIRE ✓

NORTH BOULEVARD ✓

PLUM ISLAND POINT ✓

RINGS ISLAND ✓

SALISBURY ✓

SALISBURY BEACH ✓

SEABROOK BEACH ✓

STAR OF THE SEA CHAPEL ← O.K.; location?

STATE 1A ✓

48. GEOGRAPHIC NAME LIST (CONTINUED)TOWN CREEKU. S. 1

Names approved
10-4-54
A. J. W.

49. NOTES FOR THE HYDROGRAPHER.

The following photo-hydro stations were identified in the field and are in addition to those established on preliminary survey. (Reference Preliminary Compilation Report):

PAT	East Gable, white house with green roof and two TV aerials.
LOW	East gable, brown house, mouse-colored gable to east.
EDD	Peak of roof, brown shingled house with white trim.
POL	Chimney, south gable, white house, black roof - N-S Ridgepole.
MAN	East gable, mansard roof white house trimmed in green.
SINO	Tower for Mr. Horn.
PAR	Southeast corner of high part of dance hall.
HIM	Chimney, center of roof, blue house.
RAM	Northeast corner of cream-colored apartment house.
USE	Water gable, white house.
GIN	East gable, gray house with green ginger bread.
GAM	Center of westerly point of two tanks.
HAT	South gable, black boat house.
BAG	Pole south of eight.

TIDE COMPUTATION

PROJECT NO. PH-114 (53) T-11151

Time and date of exposure 1314 10/20/52

Reference station PORTLAND, MAINE

Subordinate station MERRIMACK RIVER ENTRANCE

Mean range 8.0

Ratio of ranges 0.9

Date of field inspection

	Time		Height feet	Height x Ratio of ranges	Range of tide
	h.	m.			
High tide	11	33	9.5	8.6	
Low tide	17	56	-0.5	-0.5	
Duration of rise or fall	6	23		9.1	

	Time	
	h.	m.
High tide at Ref. Sta.	11	33
Time difference	+0	25
Corrected time at Subordinate station	11	58

	Time	
	h.	m.
Low tide at Ref. Sta.	17	56
Time difference	+0	25
Corrected time at Subordinate station	18	21

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T. Required time Interval	11	58	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	8.6 0.9 7.7	Feature bares Stage of tide above MLW Feature above MLW		DPP-14K-90
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 R. A. Reece

TIDE COMPUTATION

PROJECT NO. Ph. 114 (53) T-11151

Time and date of exposure 1236 8/26/52 Reference station PORTLAND, MAINE Mean range 8.0
 Date of field inspection _____ Subordinate station MERRIMACK RIVER ENTRANCE Ratio of ranges 0.9

	Time		Height feet	Height x Ratio of ranges		Time	
	h.	m.				h.	m.
High tide	14	30	8.8	7.9	High tide at Ref. Sta.	14	30
Low tide	8	16	0.9	0.8	Time difference	+0	25
Duration of rise or fall	6	14	Range of tide		Corrected time at Subordinate station	14	55
					Corrected time at Subordinate station	8	41

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T.	14	55	Ht. H. T. or L. T.	7.9	Feature bares		DPP-9K-102
Required time	12	36	Tabular correction	2.1	Stage of tide above MLW		
Interval	2	19	Stage of tide above MLW	5.8	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		

TIDE COMPUTATION

PROJECT NO. Ph. 114 (53) T-11151

Time and date of exposure 1215 4/29/53

Reference station PORTLAND, MAINE

Subordinate station NEWBURYPORT, MERRIMACK RIVER

Mean range 7.8

Date of field inspection

Subordinate station

Ratio of ranges 0.9

	Time	
	h.	m.
High tide	11	09
Low tide	17	05
Duration of rise or fall	5	56

	Height		Height x Ratio of ranges
	feet		
High tide	8.2	7.1	
Low tide	0.7	0.6	
Range of tide			6.5

	Time	
	h.	m.
High tide at Ref. Sta.	11	09
Time difference	+0	50
Corrected time at Subordinate station	11	59

	Time	
	h.	m.
Low tide at Ref. Sta.	17	05
Time difference	+0	50
Corrected time at Subordinate station	17	55

	h.	m.	Height	Height x Ratio of ranges	feet	Photo. No.
Time H. T. or L. T. Required time Interval	11	59	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	7.1	7.1	HWY SWING BR RR " "
Time H. T. or L. T. Required time Interval	12	15	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.0	0.0	
Time H. T. or L. T. Required time Interval	0	16	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	7.1	7.1	
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11151

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

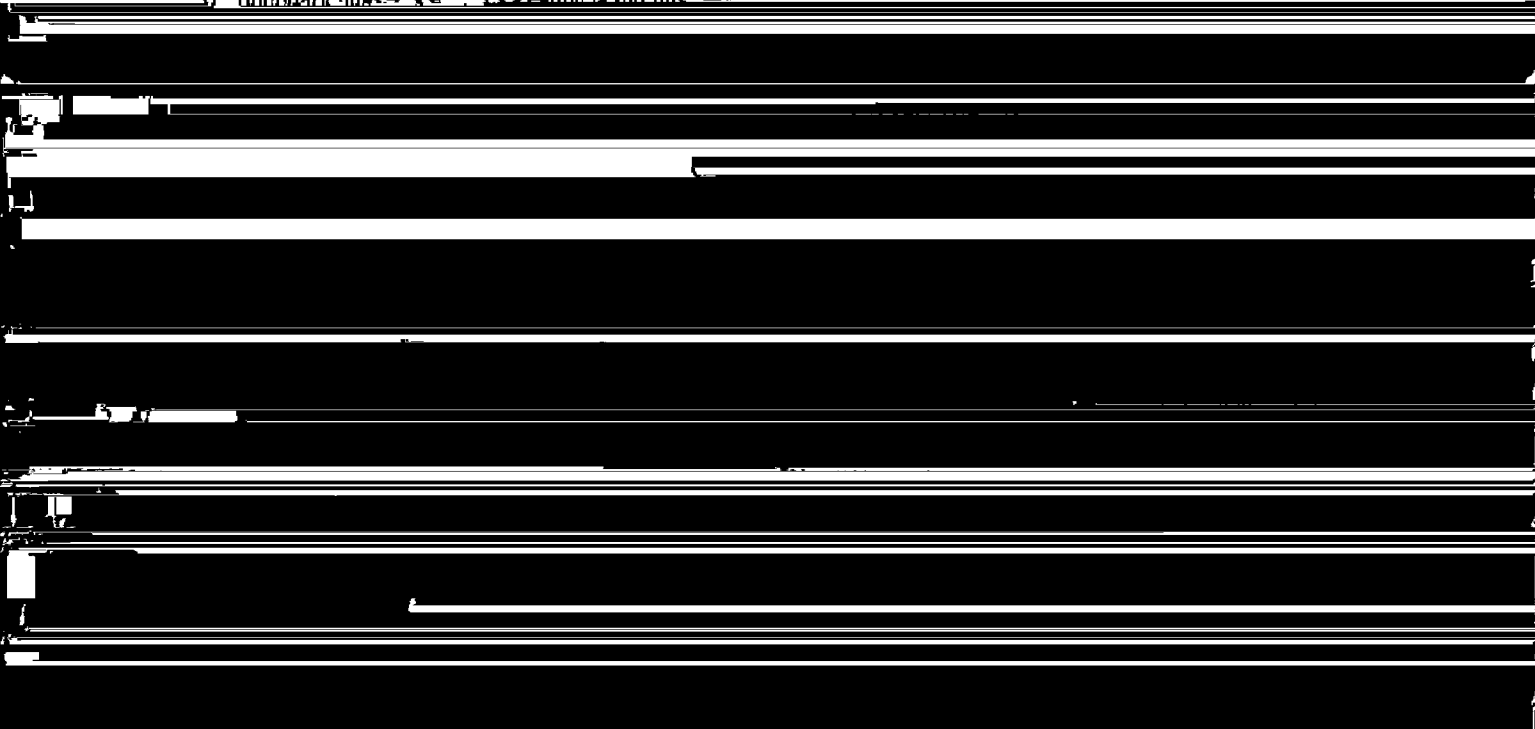
20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads J.G. 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines J.G. 32. Public land lines XX



T-11151

After the map manuscript was completed the boat sheets were made available to this office and the low-water line was transferred in red pencil. It was not possible to fill in the gaps of the low-water line left by the hydrographer as the line shown does not conform with any discernible tone or line on the photographs. The low-water line as transferred from the boat sheet is being retained on the manuscript in red pencil for convenience of the Washington Office Review Section.

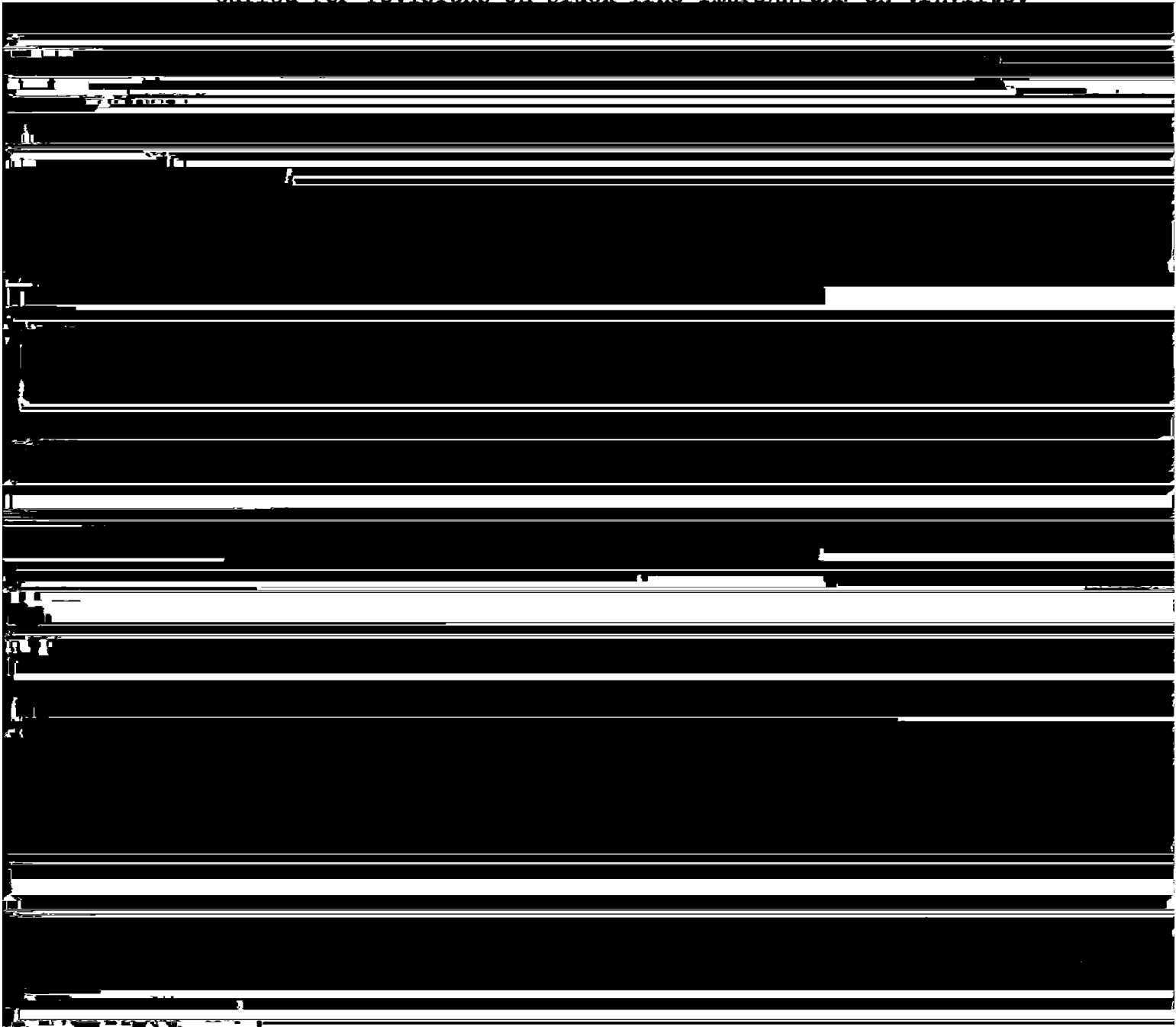
William A. Rasur

REVIEW REPORT T-11151
Shoreline Map
1 October 1954

61. General:

Stick-up was applied to the map manuscripts as a part of the compilation process, i.e., prior to review. The map manuscripts at this phase are labeled "Advance Print".

These map manuscripts were not altered during review. Any additions, alterations, or deletions recommended by the reviewer were recorded on review correction overlays to be used by the drafting section for application of the called for revisions on black line impressions on vinylite.



65. Comparison with Nautical Charts:

1206	1:80,000	Oct. 1948	cor. March 1954
331	1:20,000	July 1939	" Sept. 1951

T-11151 supersedes the charts for MHWL and culture in their common areas. H-8096 provides the MLWL and rocks.

66. Bridges:

The highway bridge over Blackwater River is not listed in the Bridge List or clearances noted on Chart 1206. *- not req'd (No sdgs)*

Clearances for the railway and the highway bridges over the Merrimac River do not agree with the Bridge List.

Bridge List

Field Inspection at 10:15 EST
Apr. 29, 1953. Water level - (5.9)

Hwy, SW	H.Cl.(left)	76 ft.	76.2 ft.
	H.Cl.(right)	71 "	73.7 ft.
	V.Cl.	20.8 ft. (MLW)	19.1 (MLW)
	V.Cl.	13.2 " (MHW)	10.9 ft. (MHW)
RR. SW	H.Cl.(left)	69 ft.	68.9 ft.
	H.Cl.(right)	64 "	66.5 ft.
	V.Cl.	20.8 ft. (MLW)	19.6 ft. (MLW)
	V.Cl.	13.2 ft. (MHW)	11.4 ft. (MHW)

67. Accuracy:

Because the radial plot report was not available, the strength of the plot is unknown.

Field inspection notes were faithfully followed, and delineation is good so that T-11151 meets charting needs.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

Approved By:

L. C. Lande
Chief, Review Section, Div.
of Photogrammetry

H. W. Swanson
Chief, Div. Photogrammetry
15 Aug 1958

Max E. Ricketts
Chief, Nautical Charts
Division of Charts

S. B. Gennell
Chief, Div. Coastal Surveys