8533

1206 + 229

Form 504

U.S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic Topographic

Field No. Office No. T-8533

LOCALITY

State New Hampshire - Massachusetts
Essex County, Massachusetts
General locality Rockingham County, N. H.

Locality Exeter, N. H.

1944

CHIEF OF PARTY

Fred. L. Peacock

LIBRARY & ARCHIVES

DATE LAGARY

B-1870-3 (1)++

DATA RECORD

T- 8533

Quadrangle (II):

Exeter 72 minute

Field Office:

Sanford, Maine

Compilation Office:

Baltimore, Md.

Instructions dated (II III):

May 1, 1943

Project No. (II):

CS-303-C, South

Chief of Party:

F. L. Gallen

Chief of Party:

Fred. L. Peacock

Copy filed in Descriptive Report No. T- (VI) Dis. of Photogram. Office Files

Completed survey received in office: 17 Feb. 1944

Reported to Nautical Chart Sections

Reviewed: 3/3/44

Applied to chart No.

Date:

Redrafting Completed: 2 2 April, 1944

Registered: 3 May 1944

1944 Published:

Compilation Scale:

1:20,000

Published Scale: 1.25000

Scale Factor (III); None

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): ROLLINS, 19山

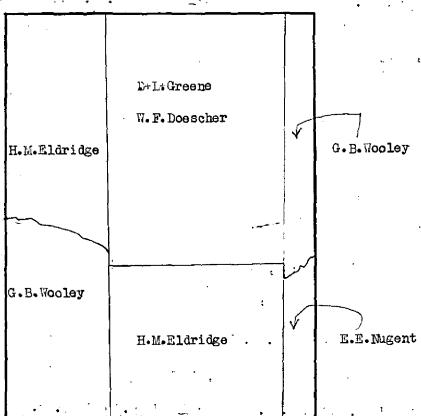
Lat.:42° 59' 17.662" 545.0m. Long. 90° 53' 45'306 1026.4m. Adjusted

State Plane Coordinates (VI) ame of review

X =

Military Grid Zone (VI) Zone "A" and special Harbor Defense Grid, Portsmouth-Portland Avea. PROJECT No.CS 303-C South'
June-October, 1943

Quadrangle No. 2-8533



PHOTOGRAPHS (III)

Number	Date	Time	<u>Scale</u>	Stage of Tide
13856 to 13858 I	nc. 4/18/43	3:34p.m.	1:20,000	5.1' above M. L. W.
13847 to 13849 I		3:34p.m.	1:20,000	5.1' above M. L. W.
13853 to 13855 I	no. 4/18/43	3:34p.m.	1:20,000	No Tidal Waters
13850 to 13852 I		3:34p.m.	1:20,000	No Tidal Waters
13822 to 13825 I	nc. 4/18/43	2:56p.m.	1:20,000	No Tidal Waters

Tide from (III): Predicted tables, reference station, PORTLAND, Maine, with time corrections for Exeter River Railroad Bridge. Mean Range: 6.91 Spring Range:

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens camera (focal length $8\frac{1}{4}$ ").

date: Field Inspection by: D. L. Greene, E. Earl Nugent Summer & Wm. F. Doescher, H. M. Eldridge Fall. 1943 G. B. Wooley date: Feb., 1943 Field Edit by: Donald Flippo

Date of Mean High-Water Line Location (III) 8

checked by:

Same as date of photographs

Projection and Minids ruled by (III) B. R. C., F. L. T.	date: A	ugust 21, 1943
" Checked by: B. R. C., F. L. T.	date: A	ugust 21, 1943
Control plotted by: Edward H. Snyder	date: A	ugust 27, 1943
Control checked by: John M. Reinoldi	date: A	ugust 28, 1943
Radial Plot by: J. Edward Deal, Jr., & Joseph Steinberg	date: A	ugust 31 to Sept. 13; 1943
Detailed by: Ambrose J. Gibson	date: S	ept. 23, 1943 to
Reviewed in compilation office by: Henry P. Eichert		anuary 21, 1944 cember 29, 1943 to anuary 21, 1944
Elevations on Field Edit Sheet Donald Flippo	date: Fe	eb.,1944

STATISTICS (III)

Land Area (Sq. Statute Niles): 59

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): 8 Statute Miles (Center line of streams only)

Number of Recoverable Topographic Stations established: 22 by radial plot (16 of which are Bench Marks)

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: About 110 mi.

Roman numberals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

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

Remarks:

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S.3/3C, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U.S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT .

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore Tampa Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blueline" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

FIELD INSPECTION REPORT QUADRANGLE T-8533 PROJECT 303-C (SOUTH) F. E. GALLEN, CHIEF OF PARTY

3

1. The area covered by this quadrangle in general is very rough, especially in the southwest section. The area along the eastern edge is comparatively flat. The ground varies in elevation from sea level to a height of about 328 feet, and has several high hills throughout the entire area.

Drainage for this area does not follow a well defined pattern. Pow Wow River enters the area in the southwestern section flowing in an easterly direction and turns to a southerly direction and leaves the area near the southwestern corner. Grassy Brook, which is more of a swamp than a brook, drains into the Pow Wow River. Great Brook, Exeter River and Bloody Brook which are tributaries of the Squamscott River flows in a northerly direction and drains the northern portion of the area. Ash Brook River flows in a southeasterly direction and leaves the area near the center of the eastern edge.

Many nerrow intermittent swamp areas were found in this quadrangle, most of which are indicated by intermittent drainage. No definite channel could be found in most of these places and because of the small scale photographs used, the narrow swampy areas-----could not be shown.

The western portion of this area is heavily wooded, the central and eastern section are about half wooded and half cleared of which very little is farm land.

There are many roads in this area and in general they are well maintained. Some of the county roads are accessable only in the summer months.

- 2. The field inspection for this area is believed to be complete except for the classification of bridges and culverts. This will be done by the field edit party. A sheet is attached to this report showing the color scheme used for the buildings. There are some variations from this scheme in towns and along the shore line. The variation in color scheme is indicated on the back or edge of each photograph on which it was used.
- 3. The photographs are in general the same for this area. The dark tones usually indicate evergreen woods or dense underbrush in perennial swampy areas.

The grey tones vary from a dark gray to a light gray. The lighter tones are the cleared or cultivated land and the darker tones are deciduous; wood and brush areas which vary according to the density of the woods and also the amount of scattered evergreen found in the woods. Most of the gray spots in the wooded area were found to be sage, deciduous brush or areas where the trees were recently cut. Most of the small spots in particularly light colored areas are juniper bushes.

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There are various areas which show as irregular line of light gray and dark gray colors. These lines are caused by windrows of brush in cut-over areas. A sawdust pile sometimes shows as a light spot near the center of the area. The probable drainage indicated with white ink has been checked in the field and only that part inked in blue was found to be correct.

- 4. The horizontal control is the subject of a separate report.
- 5. Supplemental levels were run over most of the State and County Roads to furnish additional control for the plane table party. Elevations were left on identifiable points on the photographs. In areas where no identifiable points existed stakes were used to identify the elevation and these points were later located on the photo by the plane table party.

Sufficient ties were made to permanent bench marks to control these lines, and if the error of closure was less than 0.30 of a foot, no adjustment of the elevations was made. If the closure was greater than 0.30 of a foot, and less than 1.0 foot, a straight adjustment was applied to the elevations. If the error was greater than 1.0 foot, the lines were re-run.

6. All contouring was done directly on the photographs using the regular equipment. Elevations were taken on the tops of all hills and on the toe and top of the slopes and contours were placed by interpolation.

The sterescope was used extensively in this area. Before work was started on a photograph the area was studied under the sterescope and all drainage, tops of hills and any other cultural or topographic features were noted on the photographs. These were checked and clarified in the field. This method proved to be a good guide as to where to run traverse lines to the best advantage. In densely wooded areas a number of traverse lines were run at various intervals depending upon the topography of the area and the contours were drawn from one traverse line to another by the use of the sterescope. The Hamd Level was used extensively in wooded areas where practical, and elevations were paced or taped from the nearest indentifiable point. Considerable scale factor was found on the photographs in this area, most of which was less than 1: 20,000. The contouring was done from the nearest cultural features as much as possible.

- 7. The Mean High Water line has been indicated on the photograph where it could be determined by this party.
- 8. The Low Water line has been indentified on the photographs where it could be determined by this party.
- 9. There are no wharves or shore line structures in the Quadrangle.
- 10. Does not apply to this Quadrangle.
- 11. There are no land marks or aides to navagation in this Quadrangle.
- 12. Does not apply to this Quadrangle

- 13. There are no landing fields or aeronautical aids in this Quadrangle.
- 14. All roads are classified according to instructions from the Army War College, dated November 11, 1942.
- 15. The dimensions and load limit on the bridges have been shown on the photographs, but they have not been classified.
- All buildings and structures have been indicated in contrasting: colors on the photographs.
- Boundary monuments and lines are the subject of a separate report for this project.
- Geographic names is the subject of a separate report for this project.
- This Quadrangle joins a recent survey by the U.S.G.S. on the South. A small area in Massachusettes was contoured by this party and later a tracing of the U.S.G.S. work was received. The work in general is in agreement. All discrepancies in the junctions were checked on the photographs and were found to be correct. The junctions to the East with Quadrangle T-8534 and to the North with Quadrangle T-8530 are on overlapping photographs. The Junctions have been checked in the field and should be found correct. Discrepencies with the old survey by the U.S.G.S. were found on the West. The descrepancies were checked on the photographs and found to be correct.

Approved and forwarded

F. L. Gallen

Chief of Party

Submitted by,

Henry M. Eldridge per FLG.

Henry M. Eldridge, Senior Photo. Aid.

COLOR SCHEME FOR BUILDINGS

- Dwellings
- Barns
- Dwellings and Barns connected
- Business Buildings
- Public Buildings; identified as for example; Ø

 (1) Jefferson City Library

BUTEDINGS

b - barn

Blog - Building

Bo Ho - Boay House

Ch - Churth (give name)

Ct He - Court House (give name)

P.Os - Post Office (give name)

Soh - Hohood (give name)

Hos - Hospital (give name)

PR Sta - Railroad Station

Sto - Country since or gas station

P Sta - Power Station

DOUNDARIES

BDY - Boundary
F B - Fire Break
HDG - Bedge
Park - Park
Com - Committery
Co - County

LANDMARKS

TT - Fire Tower (give name)

TT - Transmission Tower

RT - Radio Tower of mast.

Air Bu - Airway Beacon

Bu - Non-lighted aid to mavigation

Tk - Low tenk

Tk elev - Tank elevated on structure

Stk - Stack

GENERAL

delete; except whose it pertains to elevations. Use only the abbrev. listed on this page. Do not make up abbreviations.

etoke line

Dal - Mean high water; fact land IML - Low cater line
LL - March shore line 4 - Morsh A T m Merch grass in water - Dook Dk -Pier - Pier So W - Sea Well .. Bidd + Bulkhead Jo - Jetty Dol - Dolphia Pale - Pile . - Sand . Mud ⇒ Mud Rk - Rock or Rocky Sty - Stony Como - Comercte No - Nood - Bluff 811

STURATES AND PONDS

Dune - Dune

- Lergest ditches only DX - Small ditoh (delete) - Intermittent stresm PO. - Probable drainage Cr - Creek - Caral - Culvert 07 Lev ··· Laves Dem - Been - Pond - Intermittent pond

VEGETATION !

Gr - Grass Sw - Swamp Gy Sw - Cypress Swamp

ROAD CLASSIFICATION FOR HAPS OF ALL SOALES

CLASS	LABRI	STRUC TORF	LOADINO
1	Dependable hard- surface heavy duty road.	Concrete bituminus concrete bituminus Macadam, Relf type structures	Will bear heaviest loads with little maintenance.
2	Secondary, hard- surface all-wea- ther read		heavy milliery loads in all werener if
3	-cose-surface graded: orga- weether road:	Framel or stone sur- face stable material, soleoted sand-clay, eto. Drained and graded.	Will bear light military loads in good weather
	Unimpreved read	Graded and freired parth, with very light structure.	Generally mesuitable for military loads:
40	รัฐบอก ขอยนี้	Hoods roads, farm roads, etc. over which a standard gage vehicle out he driven	
5	Trail	(Rorse trails, feet trails, etc.)	

Roads with more than two (2) lanes are indicated by note slong road, so g. S. LANE. Change in lanes shown by them wit point of change. Main roads have two lanes unless otherwise Market

Private roads are designated by the latter P after the road class-iftoution:

JONES LIN BRUSH

TIT

Dagitugae Evangreni Drovess

Geografication

- Press 10 fest or more in height, and whose wough
- Brush and undergrowth thick enough to impede foot troops and concert troops lying down.
- E Southered weer not thick enough to conceal troops
 - Seattered brush not think enough to concent troops.

FRESICAL FRATURES

- Re Righer would usually appears in light tope on photographs either wooded or cultivated area; may be sorub trees or brush. (usually not symbolished on photographs.
- Los areas generally appears dark on photograph becomes swampy during rainy season; often covered with dense growth of brush.
 - Sweep ground covered with water or bossy most of the times lover in elevation than Lin wooded and/ or brush,

H " Salt merches

MOIN: The above areas are not oublined but williams notes are made on each photograph of that the viviation in tenes can be correctly interpreted in the office.

BRIDGE AND PURCH CLASSIFICATION

The second of th

Virst Symbol	One Lene	Unlimited
Councity	is many office	
A 3 /	50 tone	25 tons
2	25 tone	18 tons
C.	18 tons	18 tons
. D	10 tons	7 tons
	S tons	4 none
	Light vehicles on	ly
Second Tytes		
Vortice	A - over 14 feet	
	B - over 13 feet	,
	C over 12 feet	
	D - cver LL feet,	etc
Diard 3		
TARE C. D.		
Borizontal Ulearence		
	G - over 17 feet	
	D'- quer 16 feet.	
Man Arthur W		500c
Fourth Symbol - y	ery of tlassification	

Marks	
Bench	

524	ŧ=
fm,	
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MR	
G.S.	
U.S.	

524	=	=	£	#	E	=	E	=	E	£	E	=	#
MR 4' fm.	7,	6	1	\ •	\ \	10	117	R 34-	75.5	78	80	108.7	37.9
ω.													

Mass/NH Bdy. Mons.

524	=	=	E	÷	=
fm.				bM75.5)	
154	1567	157	1587	1597	1607
No.					

Boundary Lines in Map Area

H.N.	•	H.N		_
County,	Mass			Town
Rockingham Co.	Essex County,	Exeter Town	Hempton "	North Hampton

North Han Hampton F Strathem Kensingto	1pt	on Falls	nen '	ng ton '
	North H	Hampton	Strathe	Kensing

MHB

Kensingto South Ham Seabrook East King Kingston

ro	1	N.H.
Mess	=	Forest,
Amesbury	Salisbury	Exeter Academy

26 CONTROL:

Fourteen triangulation stations were recovered and used as horizontal control for establishing secondary and detail control points for this Map Manuscript. Of these stations, the following seven are within the limits of this $7\frac{1}{2}$ minute quadrangle:

- -ROLLINS, 1941 -HAMPTON FALLS, 1851, 1912, r.1928, 1930 -EXETER SEMINARY BALL SPIRE, 1908
- /EXETER FIRST CHURCH SPIRE, 1908
- /EXETER STANDPIPE, 1908
- / EXETER TALL CHIMNEY, 1908
- ✓ EXETER COURT HOUSE, 1908

The remaining seven stations are just outside the limits of this quadrangle. They are:

POWOW, (BORDEN), 1834, r.1941
NEWFIELDS UNIVERSALIST CHURCH TALL SLENDER SPIRE, 1908
STRATHAM SQUARE CHURCH SPIRE, 1908
STRATHAM HILL FLAGPOLE, 1943
STRATHAM HILL FIRE TOWER, 1941
STRATHAM TALL CHURCH SPIRE, 1908
GREAT HILL, 1931 (U.S.G.S.)

Shown just west of the limits of this quadrangle is one U. S. Geological Survey Triangulation Station which was not recovered by the Field Inspection Party responsible for the field inspection of horizontal control for Project CS-303, namely, MORSE HILL, 1931 (U.S.G.S.).

In order to assure more accurate picking of horizontal control stations on the office photographs, Field Inspection Points were established by the Field Inspection Party at well-defined points near four of the triangulation stations. These points are indicated by small circles in orange ink on the reverse side of the Map Manuscript. They are:

- F. I. P. ROLLINS, 1941
- F. I. P. HAMPTON FALLS, 1851, 1912, r.1928, 1930
- F. I. P. POWOW, (BORDEN), 1834, r.1941
- F. I. P. GREAT HILL, 1931 (U.S.G.S.)

27 RADIAL PLOT:

The radial plot for this Map Manuscript is described in Section 4 of the descriptive report of the radial plot for Project CS-303, which has been submitted to the Washington Office.

28 DETAILING:

The entire area of this Map Manuscript was detailed from the nine lens office photographs with the aid of the data furnished on the field inspection photographs. This inspection was, in general, satisfactory and complete.

Drainage, the limits of swamp and low ground areas, as shown on the field inspection photographs, were verified by stereoscopic examination of the office photographs. Most of these features were detailed direct from the field inspection photographs after detail control points had been picked on them. Wherever drainage itself could be seen on the nine lens office photographs, it was carefully inked in and detailed from these photographs.

Bridges and culverts were shown where indicated on the field inspection photographs or where they were definitely discernible on the office photographs. Contrary to Paragraph 15 of the Field Inspection Report, partial bridge data only was furnished by the Field Inspection Party on the field inspection photographs. It is assumed by this Compilation Office that all bridges will be classified during the time of the Field Edit.

All buildings shown on the field inspection photographs were first inked in on the nine lens office photographs and then transferred to the Map Manuscript.

29 SUPPLEMENTAL DATA:

The following supplemental data was used in the compilation of this Map Manuscript:

Blueprint, showing a profile of the Boston & Maine Railroad

Topographic tracing, showing the north edge of New Buryport West, Mass., scale 1:20,000 (U. S. Geological Survey)

Tercentenary map of Exeter, New Hampshire

One previous topographic survey made by the U. S. Coast & Geodetic Survey, No. T-2905, dated 1908, scale 1:10,000, covers a portion of this Map Manuscript. This survey is not available to the Compilation Office.

30 MEAN HIGH-WATER LINE:

The Mean High-Water Line was determined by stereoscopic examination of the office photographs, with the aid of data furnished on the field inspection photographs.

31 LOW-WATER AND SHOAL LINES:

Low-water and shoal lines were detailed in accordance with the data furnished on the field inspection photographs.

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

The field inspection photographs did not show any details offshore from the high-water line. None were discernible from examination of the office photographs.

33 WHARVES AND SHORE LINE STRUCTURES:

One boathouse and small wharf shown by field inspection data has been detailed at the town of Exeter.

34 LANDMARKS AND AIDS TO NAVIGATION:

There are no landmarks or aids to navigation shown on this Map Manuscript.

35 HYDROGRAPHIC CONTROL:

None of the recoverable topographic stations are suitable for hydrographic control except bench mark NHB 14, which may be of limited usefulness.

36 LANDING FIELDS AND AERONAUTICAL AIDS:

According to the Field Inspection Party's report, there are no landing fields or aeronautical aids within the limits of this quadrangle.

37 DISCREPANCY OVERLAY:

Accompanying this Map Manuscript, is a discrepancy overlay. On it are notes calling attention to detail to be investigated and clarified during the Field Edit. A set of General Notes has been included to explain the symbols used on both the Map Manuscript and the discrepancy overlay. All bench marks have been circled and named.

38 GEOGRAPHIC NAMES:

The results of a geographic name investigation by A. J. Wraight, have been furnished this Compilation Office by the Washington Office on the Exeter, N. H.-Mass., 15 minute U. S. Geological Survey quadrangle. Only the undisputed names have been shown on this Map Manuscript. A list of undisputed, disputed and recommended names is attached to this report.

39 HORIZONTAL ACCURACY:

The horizontal accuracy of this Map Manuscript is believed to be within the limits set forth for well-defined and less well-defined points of detail, in the instructions for Project CS-303, paragraph 23, dated May 1, 1943.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetric detail, including data furnished on the field inspection photographs, is believed to be complete as presented on this Map Manuscript. It is subject to corrections, additions and deletions during the Field Edit.

41 JUNCTIONS:

The following complete junctions have been made:

To the north, with Map Manuscript for Survey No. T-8530.

To the East, with Map Manuscript for Survey No. T-8534.

To the south, a satisfactory junction was made with a tracing of a Survey made by the U. S. Geological Survey as per instructions contained in a letter dated July 15, 1943.

There is no contemporary survey to the west of this Map Manuscript.

42 REMARKS:

An adequate description of the area covered by this Map Manuscript is contained in the report of the Field Inspection Party.

Щ COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

A visual comparison with the Exeter Quadrangle of the U. S. Geological Survey shows common detail to be in fair agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with U. S. Coast & Geodetic Survey Chart No. 229, dated November 1914, reissued April 1938. This Chart covers a very small area in the extreme north central section of this Map Manuscript. The following differences were noted:

The mean high-water line along the Exeter River, approximate Latitude 42° 59', differs by about 150 meters. Chart No. 229 shows the mean high-water line at the edge of algrass and water area shown on this Map Manuscript.

On the Map Manuscript there is shown a highway along the west bank of the Exeter River, approximate Latitude 42° 59', which does not appear on Chart No. 229. The contours in general show the same topographic picture.

Respectfully submitted, January 21, 1944

Ambrose J. Gibson Photogrammetric Aid

Map Manuscript, Discrepanyy Overlay and Descriptive Report Reviewed by:

Henry P. Eichert

Jr. Photogrammetric Eng.

Compilation of Map Manuscript Supervised by:

Joseph Steinberg Asst. Photogrammetric Eng.

and

Asst. Photogrammetric Eng.

Approved & Forwarded: January 28, 1944

Fred. L. Peacock

Commander, C & G Survey

Officer-in-Charge

Baltimore Photogrammetric Office

FIELD EDIT REPORT To accompany QUADRANGLE T-8533 Project 303-C

46. The field edit of this quadrangle was accomplished mainly by a visual inspection of the various topographical features as they were plotted on the compilation with standard field instruments being used to check discrepancies noted on the overlay. Roads, drainage, buildings and other features have been inspected and classified where omitted. Bridges have been classified according to instructions. The various field edit notes have been added to the cloth backed copy of the compilation according to the following color scheme:

Additions Black
Deletions Green
Drainage Blue
Contours Brown

Notes on the discrepancy overlay have been checked with red ink.

- 47. The compilation is believed to be complete and accurate as corrected by the field edit. Several swamps have been added and the drainage from several swamps has been clarified. The drainage from Hog Hill Swamp and vicinity has been corrected and clarified according to the Director's letter of February 2, 1944. During the drainage investigation two large contour discrepancies were encountered. These were corrected and reformed with the aid of the stereoscope after being checked in the field.
- 48. Accuracy tests, bboth vertical and horizontal, are the subjects of special reports on Project 303-0.
- 49. Junctions have been checked to the north with T-8530, to the east with T-8534 and to the south with the U.S.G.S. Newburyport West, Massachusette, quadrangle. There is no contemporary survey to the west. The tracing with the southern junctions of T-8533 and T-8534 with the U.S.G.S. quadrangles will accompany this report.

Submitted by:

Donald Flibbo putta.

Donald Flippo Sr. Photo. Aid

Approved anf forwarded:

F.L. Gallen Chief of Party

VERTICAL ACCURACY TEST QUADRANGLE T-2533 PROJECT C9-303-C Pole Gallon, Chief of Party

See Report on Vertical accuracy Test for Quadrangle T-8531 for methods.

"A" Test Traverse

Position 10 (Lat. 42-53.05) Long. 70-57.95) shows an elevation of 158 feet on the 140 feet contour.

Position 80 (Let. 42-53.25; Long. 70-58.4) shows an elevation of 148 feet 20 meters outside of an isolated 140 foot contour. This isolated contour appears to be slightly misplaced.

"B" Tost Traverse

No contours are in error by more than & contour interval in the area covered by this traverse.

It is recommended that the contours on this map manuscript be accepted as complying with the national standard map accuracy requirements.

Submitted by:

Gilbert R. Fish Lieut. Comdr., U.S.C. & G.S.

Approved and forwarded:

F. L. Gallen Chief of Perty

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8533

EXETER, N.H. - MASS. QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be
necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy Meets the National standard
Horizontal Accuracy Test No. 16 (western extension): The nine
points falling within the area of map manuscript T-8533 are
all displaced less than 0.5mm from their true position.
Vertical Accuracy Tests: This consisted of a large number of
closely spaced spot elevations. No contours in error more than
one-half contour.
Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-2905 1/10000 1908

U.S.G.S. Exeter, 1/62500 1934 ed.

Comparison with Nautical Charts Nos. 229 Apr. 1938

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

See paragraph 45 of Compilation Report

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Numerous contour changes were made during review. These changes were taken from the field edit sheet, U.S.G.S. tracing of the quadrangle to the south, vertical accuracy test points, and from careful examination of the contoured photographs under the stereoscope.

under direction of D. H. Benson

Inspected by B. G. Jones By Jones 8/48

Examined and approved:

Chief, Div. of Coastal Surveys

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault.

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the published quadrangle at 1:20,000 scale. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For woodland, refer to the published quadrangle for the finally adopted outlines.

Descriptive Report.

Filed in the Photogrammetric Division.

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Review Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch.

Glass negatives of the color separation drawings.

Filed in the Library.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract.

Film negatives and film positives of the color separation drawings.

All color separation drawings.

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

LIST OF GEOGRAPHIC NAMES

Undisputed

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Giles Hill
 Amesbury (Township)
                                      Gove Brook
 /Amesbury Road
                                      Gove Hill
 Apple Crest Orchard
                                      Gooch Corner
Ash Brook
                                      Grape Hill
                                      Grapevine Run
 Beech Hill
                                      Grassy Brook
JBlake Road
                                      Great Bridge
Bloody Brook
                                      Great Brook
√Boston & Maine (R.R.)
                                      Great Hill
 Brentwood Road
                                     , √Guinea Road (two)
Brick School Corner
 Brickyard Brook
                                      Hampton (Township)
. Bruce Hill
                                      Hampton Falls (Township)
/Bugsmouth Hill
                                       Hampton Road
                                      Haverhill Road
Chair Hill
/Chase Hill
                                      Haynes Hill
                                      /Hobbs Brook
Clay Brook
. Cock Hill
                                      Hog Hill
                                      Hog Hill Swamp
 Cock Hill Road
                                      Hoosac Hill
./Colema Pond
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. Crank Road +
√Curtiss Road
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√Dearborn Brook
                                      /Kensington (Town)
√Dodge Ponds ↓
                                      /Kensington (Township)
Dows Corner
                                      Kings Road
Drinkwater Road
                                      Kingston Swamp
Dudley Brock
                                      /Kinney Hill
Æast Branch Powwow River
                                      Lamprey Corners
Æast Kingston (Township)
                                      Little River
Æastman Corners
                                      Loverine Road
Eaton Hill
                                      Lucy Brook
 Elton Orchard
Epping Road
                                      √Massachusetts
Essex County
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Æxeter (Town)
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Exeter Academy Forest
                                      √Moulton Brook
Exeter Reservoir
                                      Moulton Ridge
Exeter River
                                     /Moulton Swamp
Exeter Rose Farm
                                       Muddy Pond
Fogg Corners
                                       Nason Corners
Folly Mill Road
                                       Newfound Hill
Fort Rock
                                       New Hampshire
 Frying Pan Corner
                                       (Continued on next page)
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LIST OF GEOGRAPHIC NAMES

Undisputed (cont'd)

New Road New Zealand Hill North Hampton (Township) North Hampton Road North School √Óld Pond √Old River JOsgood Road Palmer Hill √Parkman Brook Parkman Corner Perkins Brock Perkins Mill -Pevear Hill Phillips Exeter Academy Pickpocket Road √Pine Hill √Pine Hill Brock Powder Mill Road Powwow River Powwow River Tract Prescott Corner Queen's Bridge √Roadhouse Hill Rockingham County Rollins Hill √ Round Hill Salisbury (Township) Sanborn Corner Sand Pit Hill Sand Pit Meadows /Seamen Brook Seabrook (Township) Shaw Hill -South Hampton (Township) South Hampton (Town) South Side State Road Spring Brook (Stratham (10. Versling) Stratham Heights Stratham Heights Park Štratham Heights Road Stumpfield Ridge

Tales Corner
Tappan Corners
Taylor River
Whe Cove
The Plains School
Titcomb Hill
Titcomb Road
Towle Hill
Trundlebed Lane
Wadleighs Brook
Watson Brook
Weare Corner

Wadleighs Brook
Watson Brook
Meare Corner
Weare Mill
Wheelwright Creek
West School
Wolf Hill

√York Brook √York Hill

LIST OF GEOGRAPHIC NAMES

Disputed

Recommended

Austin Corners Bordmans Brook Bride Hill Cains Brook Cottage Hill Cottage Road Erying Pan Lane Hampton Falls River Hampton Falls Road Morse Hill Road Lamprey Road Martin Hill Moulton Ridge Road √Squamscott River Stumpfield Road Weymouth Hill Wild Pasture Road

Disputed

Queens Bridge Corner Winkley Brook Dows Hill Canes Brook Cranberry Hill Palmer Road Anne Sandman Road Weare River Exeter Road South Road South Road Clifford Ridge North Road Exeter River Middle Road Muddy Pond Hill New Road

Willyon Didyon Yes.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 28-RCC 1990 DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

WASHINGTON 25

COPY

July 15, 1943

To: Lieut. Comdr. F. L. Gallen
U. S. Coast and Geodetic Survey
39 Main Street
Sanford. Maine

From:

The Director

U. S. Coast and Geodetic Survey

Subject: Map junctions - Project CS-303

You are no doubt familiar with the fact that the U.S. Geological Survey in recent years has, in cooperation with the State of Massachusetts, mapped large parts of the State to be published on a scale of two inches to the mile. Among areas which have been mapped but not published is that adjoining Project CS-303 on the south. The U.S. Geological Survey has kindly furnished this Bureau with a tracing of those parts of two original sheets where your project will need to make a junction. The tracings as furnished were on a scale of 1:24,000 and they were enlarged by photography in this office to a scale of 1:20,000. Two copies are being forwarded to you this date under separate cover.

You will please note that in one place the State of Massachusetts extends north of latitude 42°52'30" into your quadrangle T-8533. The U.S. Geological Survey has mapped this area as an overhang on one of their quadrangles. You should field inspect this overhand area and test it for accuracy; if found adequate, it will be carried forward to quadrangle T-8533 and the area will not be remapped by this Bureau. On the published quadrangle the U.S. Geological Survey will be given credit as a source of this part of the topography.

(Signed) J.H. Hawley

Acting Director

BUY UNITED STATES WATES WATES WATES WATES WATES STAMPS

CC: Commander Fred. L. Peacock

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	Remarks	Decisions
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	,	East Kingston, Kensington, South Hampton	5
		Towns in Essex County:	6
	6	Amesbury, Salisbury	7
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NAUTICAL CHARTS BRANCH

SURVEY NO. T- 8533

Record of Application to Charts

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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.

