

Original

8526

Diag'd. on diag. ch. No. 1205

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic Topographic

Field No. Office No. T-8526

LOCALITY

State New Hampshire

General locality Strafford County

Locality Dover West

1944

CHIEF OF PARTY

Fred. L. Peacock

LIBRARY & ARCHIVES

DATE

April 12 - 1948

B-1870-1 (1)++

8526

DATA RECORD

T-8526

Quadrangle (II):

Dover West $7\frac{1}{2}$ minute Quadrangle

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. 2~~ (VI)

Div. Photogram Office Files

Completed survey received in office: 15 Jan. 1944

Reported to Nautical Chart Section:

Reviewed: 3/11/44 Applied to chart No. Date:

Redrafting Completed: 20 April, 1944

Registered: 18 Feb. 1948 Published: 1944

Compilation Scale: 1:20,000 Published Scale: 1:25,000

Scale Factor (III): None

Geographic Datum (III): N. A. 1927 Datum Plane (III): Mean Sea Level

Reference Station (III): HICKS HILL, 1943

Lat.: $43^{\circ} 10' 05.305''$ (163.7) Long.: $70^{\circ} 56' 23.675''$ (534.8) Adjusted
~~Unadjusted~~State Plane Coordinates (VI): None computed Maine west zone
(state grid not shown on sheet)

X =

Y =

Military Grid Zone (VI) Zone 'A'

Ab. Harbor Defense Grid (Portsmouth - Portland Area)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
13861 to 13866 Incl.	4/18/43	3:34p.m.	1:20,000	3.2' above M. L. W.
13839 to 13844 Inc.	4/18/43	3:34p.m.	1:20,000	3.2' above M. L. W.
13828 to 13830 Inc.	4/18/43	2:56p.m.	1:20,000	4.3' above M. L. W.

Tide from (III): Tide from predicted tables. Reference Station Portland, Maine, with corrections for Salmon Falls River Entrance
 Mean Range: 6.6' Spring Range: 7.6'

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

Field Inspection ^{and contours} by: Henry M. Eldridge, W. M. Clark, E. E. Nugent, Gordon Bowker date: Summer & Fall, 1943

Field Edit by: L. G. Chambers date: Feb., 1944

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

Same as date of photographs

Projection and Grids ruled by (III) B.R.C. & F. L. T. date: August 21, 1943

" " " checked by: B. R. C. date: August 21, 1943

Control plotted by: Edward H. Snyder date: August 24, 1943

Control checked by: William H. VanLoon date: August 26, 1943

Radial Plot by: J. Edward Deal, Jr., & Joseph Steinberg date: August 30, 1943 to September 13, 1943

Detailed by: Ruth E. Rudolph date: September 17, 1943 to January 12, 1944

Reviewed in compilation office by: Albert C. Rauck, Jr. date: December 21, 1943 to January 12, 1944

Elevations on Field Edit Sheet checked by: L. G. Chambers date: Feb., 1944

STATISTICS (III)

Land Area (Sq. Statute Miles): 55

Shoreline (More than 200 meters to opposite shore): 3 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 15 Statute Miles
Measured along approx. centerline only

Number of Recoverable Topographic Stations established: 21 by radial plot,
(19 of which are Bench Marks)

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: About 98 mi.

Roman numerals 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. ^{303 C} ~~2074~~, 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. 1943

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 templates) 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 "blue-line" 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-8526
PROJECT 303-C (SOUTH)
F. L. GILLEN, CHIEF OF PARTY

1. The area covered by this quadrangle is comparatively rough throughout the entire area, running in elevation from sea level in the southeastern section to about 386 feet in the northwestern section.

The western portion of this area is very heavily wooded with very few farms, but the central and eastern portions have more farms.

Dover, New Hampshire, population 14,990 lies in the east central portion of the quadrangle and is the only city in the quadrangle. A very small portion of Dover lies in Quadrangle T-8527.

Drainage in this area does not follow a definite pattern. Oyster River, which flows in an easterly direction, drains the southerly section, and leaves the area at the extreme southeast corner. The Cocheco River drains the northwestern portion of the quadrangle. From its head, the Isinglass River, Blackwater Brook, and Reyners Brook drain the northern section. The Cocheco flows through Dover, N. H. The Bellamy River heads up directly west of Dover and flows in an easterly direction, draining the central section of the quadrangle.

There are many roads in this quadrangle, the best of which are in the vicinity of Dover. Most of the roads in the south portion of the quadrangle are made of topsoil and in general they are well maintained.

2. See the report for Quadrangle T-8533.
3. See the report for Quadrangle T-8533.
4. The horizontal control is the subject of a separate report.
5. See the report for Quadrangle T-8533.
6. See the report for Quadrangle T-8533.
7. The Mean High Water line has been indicated on the photographs where it could be determined by this party.
8. The Low Water line has been indicated on the photographs where it could be determined by this party.
9. There are no wharves or shore line structures in this quadrangle.
10. Does not apply to this quadrangle.
11. There are no land marks or aids to navigation in the quadrangle.
12. No Hydrographic Control was established in this quadrangle.
13. There are no landing fields or aeronautical aids in the quadrangle.
14. All roads are classified according to instructions from the Army War

14. Cont'd.

College, dated November 11, 1942.

15. The dimensions and load limits of the bridges have been shown on the photographs, but they have not been classified. *See field edit sheet for classifications*

16. All buildings have been indicated on the photographs in contrasting colors except in the central part of the quadrangle, where they have been circled in red and classified.

17. Boundary monuments and lines is the subject of a separate report for this project. (~~La-Bansons File~~) *Review Unit* Div. Photogram General Files

18. Geographic names is the subject of a separate report for this project.

19. The junctions to the south with quadrangle T-8530 and to the east with quadrangle T-8527 are on overlapping photographs. The junctions have been checked in the field and should be correct.

There are no modern surveys to the west and to the north.

Approved and forwarded

Submitted by

F. L. Gallen
Chief of Party

F. L. Gallen
by L.R. Fish

Henry M. Eldridge
Henry M. Eldridge *by L.R. Fish*
Sr. Photogrammetric Aid

WOODS AND BRUSH

TYPE

D	Deciduous
E	Evergreen
Cy	Cypress

CONCEALMENT

Z	Trees 10 feet or more in height, and thick enough when in foliage to conceal troop and vehicles.
Y	Brush and undergrowth thick enough to impede foot troops and conceal troops lying down.
X	Scattered trees not thick enough to conceal troops.
W	Scattered brush not thick enough to conceal troops.

PHYSICAL FEATURES

HG	Higher ground - usually appears in light tone on photograph; either wooded or cultivated area; may be scrub trees or brush. (usually not symbolized on photographs.)
LG	Low areas - generally appears dark on photograph; becomes swampy during rainy season; often covered with dense growth of brush.
SW	Swamp - ground covered with water or boggy most of the time; lower in elevation than LG; wooded and/or brush.
M	Salt marshes

NOTE: The above areas are not outlined but sufficient notes are made on each photograph so that the variations in tones can be correctly interpreted in the office.

BRIDGE AND TUNNEL CLASSIFICATION

<u>First Symbol</u>	<u>One Lane</u>	<u>Unlimited</u>
Capacity	5 mph.	
A	50 tons	25 tons
B	25 tons	18 tons
C	18 tons	13 tons
D	10 tons	7 tons
E	6 tons	4 tons
F	Light vehicles only	

Second Symbol

Vertical Clearance	A - over 14 feet
	B - over 13 feet
	C - over 12 feet
	D - over 11 feet, etc.

Third Symbol

Horizontal Clearance	A - over 18 feet
	B - over 17 feet
	C - over 16 feet
	D - over 15 feet, etc.

Fourth Symbol - Year of Classification

ROAD CLASSIFICATION FOR MAPS OF ALL SCALES

CLASS	LABEL	STRUCTURE	LOADING
1	Dependable hard-surface heavy duty road.	Concrete, asphaltic concrete bituminous Macadam, H-15 type structures.	Will bear heaviest loads with little maintenance.
2	Secondary, hard-surface all-weather road.	Surface-treated, oil-ed gravel, waterbound Macadam, structures generally lighter than H-15 but sturdy.	Will bear fairly heavy military loads in all weather if maintained.
3	Horse-surface graded, dry-weather road.	Gravel or stone surface stable material, selected sand-clay, etc. Drained and graded.	Will bear light military loads in good weather.
4	Unimproved road	Graded and drained earth, with very light structure.	Generally unsuitable for military loads.
4U	Truck road	Woods roads, farm roads, etc. over which a standard gage vehicle can be driven.	
5	Trail	(Horse trails, foot trails, etc.)	

Roads with more than two (2) lanes are indicated by note along road, e. g. 3 LANE. Change in lanes shown by tick at point of change. Main roads have two lanes unless otherwise marked.

Private roads are designated by the letter P after the road classification.

BUILDINGS

b - barn
Bldg - Building
Bo Hb - Boat House
Ch - Church (give name)
Ct Ho - Court House (give name)
P.O. - Post Office (give name)
Sch - School (give name)
Hos - Hospital (give name)
RR Sta - Railroad Station
Sto - Country store or gas station
P Sta - Power Station

BOUNDARIES

BDY - Boundary
F B - Fire Break
HDG - Hedge
Park - Park
Cem - Cemetery
Co - County

LANDMARKS

FT - Fire Tower (give name)
TT - Transmission Tower
RT - Radio Tower or mast
Air Sn - Airway Beacon
Bn - Non-lighted aid to navigation
Lt - Lighted aid to navigation
Tk - Low tank
Tk elev - Tank elevated on structure
Stk - Stack

GENERAL

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

SHORE LINE

MWL - Mean high water; fast land
LWL - Low water line
LL - Marsh shore line
M - Marsh
MG - Marsh grass in water
Dk - Dock
Pier - Pier
Sea W - Sea Wall
Bkhd - Bulkhead
Jet - Jetty
Dol - Dolphie
Pile - Pile
S - Sand
Mud - Mud

Rk - Rock or Rocky
Sty - Stony
Conc - Concrete
Wo - Wood
Blf - Bluff
Dune - Dune

STREAMS AND PONDS

D - Largest ditches only
DX - Small ditch (delete)
IS - Intermittent stream
PD - Probable drainage
Cr - Creek
Ca - Canal
Cv - Culvert
Lev - Levee
Dam - Dam
P - Pond
IP - Intermittent pond

VEGETATION

Gr - Grass
Sw - Swamp
Cy Sw - Cypress Swamp

Compilation Report

- 4 -

26 CONTROL:

Eighteen U. S. Coast & Geodetic Survey triangulation stations and two U. S. Geological Survey horizontal control stations were used as horizontal control for the orientation of the photographs to establish secondary control, photograph centers and detail points.

Of these stations, six U. S. Coast & Geodetic Survey triangulation stations and one U. S. Geological Survey horizontal control station lie within the limits of the Map Manuscript. These stations are:

- ✓ DOVER, ST. MARY'S CATHOLIC CHURCH SPIRE, 1908
- ✓ DURHAM, COMMUNITY CHURCH SPIRE, 1943
- ✓ DURHAM, UNIVERSITY OF NEW HAMPSHIRE STACK, 1943
- ✓ DURHAM, UNIVERSITY OF NEW HAMPSHIRE WATER TANK, 1943
- ✓ HICKS HILL, 1943
- ✓ WEDNESDAY HILL, 1943
- ✓ GREEN, 1917 (U.S.G.S.)

Field inspection stations were established by the Field Inspection Party at well-defined points near three of the above horizontal control stations. This assured accurate pricking of these horizontal control stations on the office photographs. These field inspection stations are indicated by a small orange ink circle on the reverse side of the Map Manuscript. They are:

- F. I. P. HICKS HILL, 1943
- F. I. P. WEDNESDAY HILL, 1943
- F. I. P. GREEN, 1917

The remaining twelve U. S. Coast & Geodetic Survey triangulation stations and one U. S. Geological Survey horizontal control station, lie just beyond the limits of the Map Manuscript. They are:

- DOVER, 1908
- DOVER, FIRST PARISH CONGREGATIONAL CHURCH VANE, 1908
- DOVER, PACIFIC MILLS, RED BRICK STACK, 1943
- DOVER, ST. JOHNS METHODIST CHURCH, CONICAL SPIRE, 1908
- ELLIOT GREENHOUSE STACK, 1943
- GARRISON HILL LOOKOUT TOWER, 1943
- GRAY BARN CUPOLA, 1908
- NORTH BERWICK, LARGE STANDPIPE, 1908
- NORTH BERWICK, SMALL STANDPIPE, 1908
- SOMERSWORTH, GREAT FALLS DYE WORKS STACK, 1943
- TANK WINDMILL, 1908
- WENT, 1908
- TT11TDA, 1940 (U. S. G. S.)

26 CONTROL: (cont'd)

Two additional stations have been plotted within the limits of the Map Manuscript. These stations were reported not needed by the Field Inspection Party. They were accordingly not available to control the radial plot. They are:

- \ DURHAM, 1943
- \ DURHAM, THOMPSON HALL SPIRE, 1943

27 RADIAL PLOT:

The radial plot for this Map Manuscript is described in the descriptive report for the Main Radial Plot, section 4, of Project CS-303, which has been submitted to the Washington Office. *(In Banson's File) (Revised)*
Div. Photogram. General Files

28 DETAILLING:

Adequate field inspection data for interior data only was furnished the Compilation Office on nine lens photographs, scale 1:20,000.

The Field Inspection Party also furnished the Compilation Office a print showing the buildings of the University of New Hampshire. *In field inspection file.* This print was used to supplement the field inspection photographs and to verify the location of these buildings. The name and description of this print will be found listed under the paragraph on "Supplemental Data".

The dimensions but not the load limits of the bridges, within the limits of this Map Manuscript, have been shown on the field inspection photographs. It is assumed they will be coded at the time of the Field Edit.

29 SUPPLEMENTAL DATA:

The following prior topographic surveys, made by the U. S. Coast & Geodetic Survey, cover portions of the area of this Map Manuscript:

Survey No.	Dated	Scale of
T-2903	1908-09	1:10,000
T-2958	1909	1:10,000

These surveys were not available to the Compilation Office. *Completed during review.*

One linen backed, paper print. LAND HOLDINGS OF THE UNIVERSITY OF NEW HAMPSHIRE AND CERTAIN ADJOINING TRACTS, DURHAM, N. H., scale of 1"=330', prepared by F. W. and R. S. Taylor, January 1930, revised January 1939.

29 SUPPLEMENTAL DATA: (cont'd)

The Field Inspection Party also furnished the Compilation Office one blueprint, PROFILE - BOSTON AND MAINE R. R., Portland Division, Main Line (w) scales - hor. 1"=4,000', vert. 1"=120', dated August, 1931, corrected 1943.

This blueprint was used to verify the number and type of grade crossings of the Boston and Maine R. R. which lie within the limits of this Map Manuscript.

One blueprint, Map of the City of Dover, N. H., showing verification of street names, scale and date unknown.

30 MEAN HIGH-WATER LINE:

The stage of tide of the photographs used in the process of detailing this Map Manuscript was computed and found to be at or near half-tide.

This Compilation Office believes that shore line shown on War Mapping, Map Manuscripts should be of the same high standard of accuracy as that shown on Coastal Surveys Map Drawings. This could not be accomplished if the field inspection data of the high-water line of Oyster River, as shown on field inspection photographs No. 13843 and No. 13844, was used.

The high-water line of Oyster River, shown on this Map Manuscript, was delineated from stereoscopic examination of the nine lens office photographs.

It is noted, that in most cases the field inspection did not show a specific high-water line. A very approximate red ink line, was drawn on the field inspection photographs, representing the high-water line. Marsh and other areas adjacent to the high-water line were not correctly delineated on the field inspection photographs. In one case, marsh is indicated where high ground is very evident.

31 LOW-WATER AND SHOAL LINES:

Low-water and shoal lines were not indicated by the Field Inspection Party, but several shoal areas, interpreted by the Compilation Office, have been shown on the Map Manuscript in the tributaries of the Oyster River.

<u>CEGS</u>	<u>USGS</u>	<u>NHGS</u>
C-5 1933	Gaging Sta (Ref M.A.E)	A-15
D-5 "	BM 73	B-45
E-5	78	45
F-5	83.3	47
	104	C-5 (1934)
y-1 1923	117	
	164	
	173	

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

No details offshore from the high-water line were indicated by the Field Inspection Party within the limits of this quadrangle, and none were visible on the office photographs.

33 WHARVES AND SHORE LINE STRUCTURES:

None were indicated by the field inspection data, and only one pier was found from office examination of the nine lens office photographs. This pier is located in Winkley Pond.

34 LANDMARKS AND AIDS TO NAVIGATION:

No landmarks or aids to navigation lie within the limits of this Map Manuscript.

35 ~~HYDROGRAPHIC CONTROL:~~ *Topographic Stations*

Form No. 524 is submitted for two Recoverable Topographic Stations, which lie within the limits of this Map Manuscript. Positions and descriptions are furnished thereon. These stations are believed suitable for partial hydrographic control as long as they remain standing.

36 LANDING FIELDS AND AERONAUTICAL AIDS:

*Madbury Stack
Sawyer's Mills Tall Chimney
+ 18 B.M's (see # 43)*

No data has been furnished the Compilation Office concerning any landing fields or aeronautical aids within the limits of this Map Manuscript. *An ab'd ldy field is shown in SE corner of map.*

37 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared, during the process of detailing, to accompany this Map Manuscript. On it are notes regarding discrepancies between different units of the Field Inspection Party, omissions, differences of interpretation between the field inspection data and the Compilation Office, and other notes which are likely to be of assistance to the Field Edit Party.

Differences in the location of Boundary Monuments and lines between two units of the Field Inspection Party have been noted on the discrepancy overlay.

Field Edit Report

38 GEOGRAPHIC NAMES:

Geographic names shown on this Map Manuscript have been compiled from a special report on geographic names by A. J. Wright. All the names shown on this Map Manuscript are undisputed. A list has been prepared and is attached to this descriptive report.

39 HORIZONTAL ACCURACY:

The horizontal accuracy of this Map Manuscript is believed to be within the limits set forth, for well-defined points and less well-defined points of detail, under Paragraph 23 of the instructions for War Mapping, Project GS-303, dated May 1, 1943. *See field edit report for accuracy tests.*

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetric detail, as presented on this Map Manuscript, is believed to be complete, including all field inspection data and careful interpretation of the photographs, where field inspection data was lacking. It is subject to revision, deletion and additions by the Field Edit Party.

41 JUNCTIONS:

Complete and satisfactory junctions have been made with the following Map Manuscripts:

To the east, with Map Manuscript for Survey No. T-8527
To the south, with Map Manuscript for Survey No. T-8530
To the north and west, no contemporary surveys were available to the Compilation Office.

42 REMARKS:

The description, as prepared by the Field Inspection Party in the Field Inspection Report, adequately describes the area covered by this Map Manuscript.

43 BENCH MARKS:

The positions of nineteen bench marks have been determined by radial intersections within the limits of this Map Manuscript.

Form No. 524 is herewith submitted to accompany this Map Manuscript, for eighteen of these bench marks. Positions and descriptions are furnished thereon. ✓

43 BENCH MARKS: (cont'd)

One bench mark, N. H. E. 40, has been identified at one location on recovery field inspection photograph No. 13864 and has been identified at another location on recovery field inspection photograph No. 13865 by the Field Inspection Party. There is approximately 150 meters difference in Latitude between these two locations. Both positions of this bench mark have been determined by radial intersections and have been shown on the Map Manuscript. Form No. 524 is not being submitted for the position of this bench mark because of this discrepancy. An appropriate note is shown on the discrepancy overlay. *See field edit sheet, corrected on manuscript.*

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison was made with the U. S. Geological Survey, Dover 15' Quadrangle, scale 1:62,500. Due to the scale difference, only a general comparison of common highways and shore line could be made, and these were found to be in good agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with U. S. Coast & Geodetic Survey Chart No. 229, scale of 1:30,000, dated November 1914, reprinted January 2, 1942.

This Chart does not show the extent of the rivers as shown within the limits of the Map Manuscript. Therefore, only a partial comparison of the Oyster River, in the southeast extremity of this Map Manuscript, and the Cocheco River, in the vicinity of Dover, could be made.

This comparison indicated good agreement of common detail.

Respectfully submitted:
January 12, 1944

Ruth E. Rudolph
Ruth E. Rudolph
Assistant Photogrammetric Aid

Map Manuscript, Discrepancy
Overlay and Descriptive Re-
port Reviewed by:

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.
Senior Photogrammetric Aid

Compilation of Map Manu-
script Supervised by:

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Eng.

and

J. Edward Deal, Jr.
J. Edward Deal, Jr.
Asst. Photogrammetric Eng.

Approved & Forwarded:
January 14, 1944

Fred L. Peacock
Fred. L. Peacock
Commander, C & G Survey
Officer-in-Charge
Baltimore Photogrammetric Office

FIELD EDIT REPORT
To accompany
QUADRANGLE T-8526
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 and methods 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 were applied to the cloth backed copy of the compilation according to the following color scheme:

Additions	Black
Deletions	Green
Drainage	Blue
Contours	Brown
Boundaries	Purple

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. Some contours have been reshaped and some drainage has been delineated with the aid of the stereoscope after being inspected in the field.

* 48. Accuracy tests, both vertical and horizontal, are the subjects of special reports on Project 303-C. *(to be submitted to Div. of Phot. Gen'l. Files)*

49. Junctions have been checked with quadrangle T-8530 on the south. No contemporary surveys exist on the west and north.

* The discrepancies indicated in the report on horizontal control for Proj. 303-C were due to faulty detailing. These were corrected by the reviewer. M.V.P.

Submitted by:

L. G. Chambers pu JH9.

L. G. Chambers
Prin. Photo. Aid

Approved and forwarded:

F. L. Gallen

F. L. Gallen
Chief of Party

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 8526

DOVER WEST, N. H. 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

Horizontal: Faulty detailing corrected, thus making the map meet the accuracy standard. *See next page.*

Vertical: A small 140-ft contour was added to the manuscript in the "K" traverse area.

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, in common detail.

T-2903	1/10000	1908-09	T-2958	1/10000	1909
U.S.E. DOVER		1/62500	1940		
U.S.E. PORTSMOUTH		1/62500	1920		
U.S.G.S. DOVER		1918,	rep. 1939		

No contemporary Hydrographic survey.

Comparison with Nautical Charts Nos. 229 1/30000 1914
revision of 1/25/44

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:

Changes in shoreline of Oyster River

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

The horizontal test did not fall within the prescribed limits of accuracy according to a literal interpretation of test points. Actually a number of the test points were not well defined and others were out of position due to faulty detailing. Obvious detailing errors were corrected and the map accepted without objection.

* The vertical test was within the accuracy requirements, but the 180 ft contour should have been corrected slightly as indicated below

This review report was compiled from notes made at the time the manuscript was reviewed.

No changes were made to the manuscript in the area of the "M" traverse for vertical accuracy. In this test a 171-ft and a 172-ft elevation fell on the 180-ft contour, and other elevations differed with mapped contours. A note to this effect has been placed on the "correction" copy.*
LTS (Feb. 1948)

Reviewed 11 March, 1946 By M. V. Parker
under direction of D. H. Benson per
LTS

Inspected by B. G. Jones *B.G. Jones 3/48*

Examined and approved:

~~Chief, Survey Branch~~

K. T. Adams

Chief, ~~Topography Section~~
Div. of Photogrammetry

A. E. Roderburg
for Chief, Div. of Charts

C. K. Green
Chief, Div. of Coastal
Surveys

RECORDS

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

- | | |
|---------------------------|------------------------------|
| ✓ Back River Road | ✓ Knox Marsh |
| ✓ Back River School | ✓ Knox Marsh Brook |
| ✓ Bagdad Road | ✓ Knox Marsh Road |
| ✓ Barbadoes Pond | ✓ Layne Hill |
| Barrington | Layne School |
| ✓ Beards Creek | ✓ Lee |
| ✓ Beech Hill | Line Brook |
| ✓ Bellamy Park | ✓ Littlehale Creek |
| ✓ Bellamy River | ✓ Littleworth School |
| ✓ Bellamy Road | ✓ Long Hill |
| ✓ Berry Brook | ✓ Long Hill (East of Cocheo) |
| ✓ Blackwater | ✓ Long Hill Road |
| Blackwater Brook | Longmarsh Brook |
| ✓ Blackwater Hill | ✓ Madbury |
| Blackwater Road | Madbury Road |
| ✓ Boston & Maine Railroad | Madbury School |
| ✓ Bunker Creek | ✓ Mallego Brook |
| ✓ Calef Brook | ✓ Mallego Plains |
| ✓ Calef Road | Manchester Road |
| ✓ Center School | ✓ Mast Road |
| Central Park | ✓ Mast Road School |
| ✓ Chelsey Brook | ✓ Mill Road |
| Cocheo | ✓ Oyster River |
| ✓ Cocheo River | ✓ Pudding Hill |
| ✓ College Brook | ✓ Peters Marsh Brook |
| Concord Road | ✓ Pierce Brook |
| ✓ Demeritt Hill | ✓ Randall Hill |
| ✓ Demeritt Road | ✓ Reservoir |
| ✓ Dover | ✓ Reservoir Brook |
| ✓ Dover Road | Reservoir Hill |
| ✓ Drew Brook | Reyners Brook |
| ✓ Drews Hill | ✓ Rochester |
| ✓ Dube Brook | Rochester Neck |
| ✓ Dube Hill | ✓ Rochester Neck Road |
| ✓ Durham | Sawyers |
| East Barrington | ✓ Smith Creek |
| ✓ Emerson Road | Somersworth |
| Fancy Hill | ✓ Spruce Hole |
| ✓ Five Corners | ✓ Spruce Lane |
| Gerrish Brook | ✓ State College |
| Granite State Park | Stevens Hill |
| Green Hill | ✓ Strafford County Farm |
| Green Hill Brook | ✓ Sunken Island |
| Hayes Hill | The Hoppers |
| Hayes School | ✓ Tibbett Brook |
| Hicks Hill | Tolend Road |
| ✓ Horn Brook | ✓ Turtle Pond |
| ✓ Horsehide Brook | ✓ Wednesday Hill |

(Cont'd next page)

(Cont'd next page)

LIST OF GEOGRAPHIC NAMES

Undisputed (cont'd)

Indian Brook
Isinglass River
Jackson Brook
Johnson Creek
Kelly Brook

Wentworth Brook
Willand Pond
Winkley Pond
Woodman Park

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		
4		Railway Guide
5		N.H. State and other road maps
6		"
7		
8		431708
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		" USGB
23		"
24		432708
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8526

DOVER WEST quadrangle

1 Name on Survey

		A	B	C	D	E	F	G	H	K
		On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
Strafford County		✓		✓						1
Towns of Durham, Lee, Barrington, Madbury, Dover, Rochester,		✓	✓	✓	✓	✓	✓	✓		2
Somersworth, Hollisford			✓							3
Boston and Maine R.R.		✓		✓						4
U.S. No. 4				✓						5
State Roads Nos. 4, 9, 16, 16A, 108, 125		✓	✓	✓	✓					6
										7
Oyster River		✓		✓						8
Smith Creek		✓		✓						9
Bunker Creek		✓		✓						10
Johnson Creek		✓		✓						11
Back River Road		✓		✓						12
Back River School		✓		✓						13
Spruce Lane		✓		✓						14
Drews Hill		✓		✓						15
Bellamy Road		✓		✓						16
Bellamy River		✓		✓						17
Bellamy Park		✓		✓						18
Sawyers		✓		✓						19
Woodman Park		✓		✓						20
Dover		✓		✓						21
Cocheco River		✓		✓						22
Berry Brook		✓		✓						23
Willand Pond		✓		✓						24
Gates Corner		✓		✓						25
Central Park		✓		✓						26
Granite State Park		✓		✓						27

Remarks.

	Remarks.	Decisions
1		432708
2		"
3		432709
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8526

2	Name on Survey	On Chart No.		On previous survey No.		On U. S. quadrangle Maps		From local information		On local Maps		P. O. Guide or Map		Rand McNally Atlas		U. S. Light List	
		A	B	C	D	E	F	G	H	K							
	Dover Road	✓		✓													1
	Peters Marsh Brook	✓		✓													2
	Blackwater	✓		✓													3
	Blackwater Road	✓		✓													4
	Blackwater Hill	✓		✓													5
	Blackwater Brook	✓		✓													6
	Long Hill	✓		✓													7
	Long Hill Road	✓		✓													8
	Reyners Brook	✓		✓													9
	Indian Brook	✓		✓													10
	Horn Brook	✓		✓													11
	Tolend Road	✓		✓													12
	Sunken Island	✓		✓													13
	Stratford County Farm	✓		✓													14
	Jackson Brook	✓		✓													15
	Mallego Plains	✓		✓													16
	The Hoppers	✓		✓													17
	Cocheco	✓		✓													18
	Rochester Neck	✓		✓													19
	Rochester Neck Road	✓		✓													20
	Isinglass River	✓		✓													21
	Green Hill	✓		✓													22
	Green Hill Brook	✓		✓													23
	Calef Road	✓		✓													24
	Calef Brook	✓		✓													25
	Wentworth Brook	✓		✓													26
	East Barrington	✓		✓													27

Remarks

Decisions

	Remarks	Decisions
1		432709
2		431709
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8526

3	Name on Survey											
		A	B	C	D	E	F	G	H	K		
	Drew Brook	✓		✓								1
	Mallego Brook	✓		✓								2
	Winkley Pond	✓		✓								3
	Long Hill	✓		✓								4
		(north side upper Bellamy River)										
	Madbury School	✓		✓								5
	Barbadoes Pond	✓		✓								6
	Fancy Hill	✓		✓								7
	Concord Road	✓		✓								8
	Littleworth School	✓		✓								9
	Knox Marsh			✓								10
	Knox Marsh Road	✓		✓								11
	Knox Marsh Brook	✓		✓								12
	Kelly Brook	✓		✓								13
	Pudding Hill	✓		✓								14
	Madbury	✓		✓								15
	Hicks Hill	✓		✓								16
	Center School	✓		✓								17
	Manchester Road	✓		✓								18
	Hayes School	✓		✓								19
	Hayes Hill	✓		✓								20
	Madbury Road	✓		✓								21
		(two places on Names sheet)										
	Pierce Brook	✓		✓								22
	Line Brook	✓		✓								23
	Stevens Hill	✓		✓								24
	Dube Hill	✓		✓								25
	Dube Brook	✓		✓								26
	Tibbett Brook	✓		✓								27

Remarks.

Decisions

	Remarks.	Decisions
1		431709
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8526

4	Name on Survey	On Chart No.		On previous survey No.		On U. S. quadrangle Maps		From local information		On local Maps		P. O. Guide or Map		Rand McNally Atlas		U. S. Light List	
		A	B	C	D	E	F	G	H	K							
	Emerson Road	✓		✓													1
	Randall Hill	✓		✓													2
	Layne School	✓		✓													3
	Layne Hill	✓		✓													4
	Five Corners	✓		✓													5
	Turtle Pond	✓		✓													6
	Chelsey Brook	✓		✓													7
	Wednesday Hill	✓		✓													8
	Spruce Hole	✓		✓													9
	Mast Road	✓		✓													10
	Mast Road School	✓		X													11
	Mill Road	✓		✓													12
	Demeritt Road	✓		✓													13
	Demeritt Hill	✓		✓													14
	Beech Hill	✓		✓													15
	Durham Reservoir	✓		✓													16
	Reservoir Hill	✓		✓													17
	Reservoir Brook	✓		✓													18
	Beards CreeR	✓		✓													19
	Littlehale Creek	✓		✓													20
	Gerrish Brook	✓		✓													21
	Bagdad Road	✓		✓													22
	Durham	✓		✓													23
	University of New Hampshire		✓ (at Durham, not State College)	✓													24
	College Brook	✓		✓													25
	Longmarsh Brook	name shown		X Newmarket Road.													26
	Horsehide Brook	✓		✓													27

Names underlined in red approved
by L. HECK on 3/28/44

