

# 8512

Diag'd. on Diag. Ch. No. 1205 (Insert)

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Air Photographic

Field No. CS-303-A Office No. T-8512

### LOCALITY

State Maine

General locality Cumberland County

Locality Portland

1943-'44

CHIEF OF PARTY

F.L. Peacock

### LIBRARY & ARCHIVES

DATE May 24, 1949

B-1870-1 (11)

# 8512

## DATA RECORD

T-8512

Quadrangle (II):  
Portland, west,  $7\frac{1}{2}$  minute

Project No. (II):  
CS-303-A

Field Office:  
Sanford, Maine

Chief of Party:  
F. L. Gallen

Compilation Office:  
Baltimore, Maryland

Chief of Party:  
Fred. L. Peacock

Instructions dated (II III):  
May 1, 1943

Copy filed in *Division of*  
~~Report No. 1~~ *(VI)*  
*Photogrammetry Office Files*

Completed survey received in office: 31 Mar. 1944

Reported to Nautical Chart Section:

Reviewed: 26 May 1944 Applied to chart No.

3201 Date: Jan 20, 1945  
325  
201  
315

Redrafting Completed: 22 June 1944

Registered: 11 Oct. 1948

Published: May, 1945

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): Westbrook Stack, 1941

Lat.:  $43^{\circ} 41' 05.047''$   
155.8 (1695.9)m.

Long.:  $70^{\circ} 21' 13.192''$   
295.5 (1048.4)m.

Adjusted  
~~Horizontal~~

State Plane Coordinates (VI): None - Harbor Defense Grid

X =

Y =

Military Grid Zone (VI)

"A"

O. N. Dalbey	M. C. Jenkins
	Maurice Burn

Contours by above Summer & Fall  
1943.

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
13680 to 13683, Inc.	4-18-43	12:01 P.M.	1:20,000	7.65' above M.L.W.
13687 to 13690, Inc.	4-18-43	12:01 P.M.	1:20,000	7.65' above M.L.W.
13700 to 13704, Inc.	4-18-43	12:24 P.M.	1:20,000	7.05' above M.L.W.
13714 to 13719, Inc.	4-18-43	12:40 P.M.	1:20,000	6.60' above M.L.W.

Tide from (III): Predicted tables. Reference station, Portland, Maine.

Mean Range: 8.9 feet

Spring Range: 10.2 feet

Camera: (Kind or source) U. S. Coast and Geodetic Survey, nine lens camera.  
(Focal length  $8\frac{1}{4}$  inches).

Field Inspection by: Morris W. Burr & Marvin C. Jenkins date: Summer, 1943

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

Date of Mean High-Water Line Location (III): Same as date of photographs.

Projection and Grids ruled by (III) Washington Office date: Unknown

" " " checked by: Washington Office date: Unknown

Control plotted by: Henry P. Eichert date: Oct. 18, 1943

Control checked by: William H. VanLoon date: Oct. 19, 1943

Radial Plot by: Joseph Steinberg and J. Edward Deal, Jr. date: Dec. 6 to Dec. 9, 1943

Detailed by: Edward H. Snyder date: Jan. 6 to Mar. 25, 1944

Reviewed in compilation office by: William H. VanLoon date: Mar. 25 to Mar. 30, "

*Map Manuscript*  
Elevations on ~~Field Edit Sheet~~ L. G. Chambers  
checked by: date: April, 1944

STATISTICS (III)

Land Area (Sq. Statute Miles); 52

Shoreline (More than 200 meters to opposite shore); 21.5 statute miles

Shoreline (Less than 200 meters to opposite shore); 19 statute miles  
(Measured along approximate center line of waterway)

Number of Recoverable Topographic Stations established; Six bench marks  
(Established by radial plot)

Number of Temporary Hydrographic Stations located by radial plot;

See Descriptive Report for Surveys Nos. T-5957 and T-5959.

Leveling (to control contours) - miles; About 105 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

7-8512

This quadrangle, together with similar adjoining maps produced under Project C.S.344, 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:

PREPARATION OF BASE MAPS

Assembly into quadrangle base sheets by photographic means of previously produced planimetric maps of the area. These maps were compiled by this Bureau from aerial photographs taken in 1941 and were published in 1944 on the scale of 1:10000. Lithographic prints of the quadrangle base sheets on cloth-mounted paper were furnished to the field parties and similar prints in red ink on celluloid sheets were furnished to the compilation office.

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. The field parties were permitted to make field inspection notes either on the photographs or on the planimetric base sheet.

Contouring by planetable, directly on the photographs or on the planimetric base sheet at the option of the field party. The contouring for this quadrangle was done on the

FIELD INSPECTION REPORT  
QUADRANGLE T-8512  
Project CS-303-A  
F. L. Gallen, Chief of Party

1. DESCRIPTION OF AREA:

The area covered by this quadrangle lies entirely in Cumberland County, Maine. The west central part of the quad takes in the city of Westbrook, and the southeastern portion covers the city of Portland. The Presumpscot River with its many tributaries forms a drainage pattern for the northern half of the quad, while the Fore River with its tributaries forms a drainage pattern for the southern part of the quad. The Stroudwater River is the main tributary of the Fore River and is the main controlling factor for the contours in the southwest portion of the quad. The greater portion of this quad lies within the limits of the cities of Portland and Westbrook and of the smaller outlying towns. The farmland, which is only a small percentage of the area, is mainly located in the western and northern portions. The principal crops are vegetables and feed for dairy cattle. Little or no grain is grown in this section. Pasture land for numerous dairy herds is found all along the northern side of the Presumpscot River. In general, the heavily wooded portions of the quad are found bordering the numerous brooks and streams and covering the larger hills throughout the area. The city of Portland is an important shipping and ship building center. The steep portion on the east and west parts of the main section are the sites of the Eastern and Western Promenades. The western Promenade slope is a very steep, gravel-faced bank. That of the Eastern Promenade isn't quite so steep, and is covered with vegetation. The western portion of the city, north of the Fore River, has numerous small isolated contours, formed by sharp rock outcrops. In the northwest part of the city there is a high solid rock hill where quarrying operations are being carried on. The peak is the highest point in Portland, from which the entire city and harbor are visible.

2. COMPLETENESS OF FIELD INSPECTION:

The field inspection is thought to be complete. All items have been classified in accordance with instructions. Public buildings in Portland and Westbrook were located and inked on the photographs in green. These buildings were numbered and a list was prepared giving numbers and names of buildings. The list accompanies the photographs. The city of Portland was designated as a "congested area" and only public buildings are shown. Elsewhere on the quad, buildings circled in red and not otherwise classified are dwellings. Other buildings or structures are circled in red and classified as barns, stores, etc. Trails are shown with a dashed red line, and are generally found in wooded areas. Roads and highways outside city limits have been designated and classified. The drainage shown on the photographs has been checked in the field and is correct as shown. It is thought that all

necessary information is shown on the photographs with the exception of the railroad yards in Portland and South Portland. These lines should be secured from the compilation of this area since it would be impracticable and impossible to show more railroad lines than those already shown on the compilation of this area. Classification of bridges and culverts which have been designated on the photos, or any other small items inadvertently omitted, will be noted by the field edit party.

3. INTERPRETATION OF THE PHOTOGRAPHS:

The photos for this quad are typical to corresponding areas of this type. It is believed that all detail of importance was detected and noted. On the photos the deciduous trees show up a light grayish color and are generally found in the bottoms of drainage or swamp areas. The evergreens are a dark color and are found on the higher ground. It is thought that nothing should be shown on the compilation which is not noted on the photo or does not have a notation for something similar on some other part of the photo or photos for this quad.

4. HORIZONTAL CONTROL:

The horizontal control for this quadrangle was handled in accordance with instructions for project 303-A.

5. VERTICAL CONTROL:

Refer to Field Inspection Report for Quadrangle T-8519.

6. CONTOURS AND DRAINAGE:

Contouring was carried on by a four-man planetable party using standard Coast Survey methods and equipment. The first operation in contouring was to establish a line of magnetic declination on the photo. This was accomplished by orienting along a straight road near the center of the photo. The magnetic line was used for orientation when other methods were not available. All contouring was done directly on the photographs and cultural features were used to supplement planetable shots to locate the contours wherever possible. Hand level lines were run in the thickly wooded areas where it was not possible to take the planetable. Distances were paced to the elevations or photographic detail was used to locate the elevations on these lines. The running of long hand level lines in heavily wooded areas was avoided where it was not possible to control the direction of the lines. Most of the elevations were obtained by actual planetable shots. Traverses were tied in to predetermined elevations, and none of the closures <sup>was</sup> over .7 of a foot. Contours were shaped with the stereoscope and checked in the field by planetable shots. Drainage was drawn by using the stereoscope and later checked in the field. In numerous cases, the contours were "set" in drains



and down steep hills, and elevations were not shown. In these cases the contours were "set" with the hand level and checked at intervals with planetable shots. In the very rough terrain in the northwest part of the quad the value of the stereoscope for shaping contours was inestimable. Contouring in the congested areas of Portland was done by means of hand level lines which were tied into the previously set level elevations throughout the city. There were no closures of more than .7 of a foot. These lines were run on almost every street, especially in the steeper areas, and down the slopes from the Promenades at frequent intervals. The contours were "set" by pacing and by direct inspection of detail on the photograph.

7-13. The items under these headings in the field inspection report do not apply to this area.

14. ROAD CLASSIFICATION:

Roads were classified according to instructions issued by the Army War College, Washington, D. C.

15. BRIDGES AND CULVERTS:

Classifications of bridges and culverts will be done on the field edit sheet. Bridges have been designated on the field sheet along with main culverts.

16. BUILDINGS AND STRUCTURES:

Public buildings have been inked on the photos in green and numbered. A list was prepared showing numbers and names of these buildings, and attached to the photos. Buildings in red and not otherwise classified are dwellings. Other buildings or structures have been classified. Except in the city of Portland, all buildings or structures not circled or designated are to be deleted.

17. BOUNDARY MONUMENTS AND LINES:

This quadrangle, which lies wholly within the limits of Cumberland County, Maine, is sub-divided into the towns of Windham, Westbrook, Falmouth, Scarborough, Portland, and South Portland. All town lines, with the exception of a small section between the towns of Westbrook and Falmouth, as mentioned below, have been shown on the photographs with the appropriate symbol. Town line monuments are shown with a red circle. The monuments shown were actually located in the field and checked with maps of the various towns. The town line of Westbrook is not shown complete on photo 13701. However, a number of monuments have been pricked and a map of the town of Westbrook has been submitted. The portion of the line lacking between Falmouth and Westbrook runs in a northwest-southeast direction beginning in the vicinity of Highland Lake. It continues across the woods to a point just above the Presumpscot River, where the line crosses the road. A monument was found along the road and the line from the road

to the river is complete as shown on the photo. All other town lines may be taken directly from the photos with no further investigation. A map of the town of Portland is submitted for reference in compiling. There are no military reservations on this quadrangle.

18. GEOGRAPHIC NAMES:

Geographic Names for this quadrangle are the subject of a special report by A. J. Wraight in Project CS-303-A.

19. JUNCTIONS:

Junctions with T-8506 on the north, T-8513 on the east, T-8518 on the south, and T-8511 on the west have been made and are in agreement.

20. PHOTOGRAPHS USED:

The photographs used in surveying this area were: Nos. 13681, 13686, 13687, 13688, 13689, 13690, 13701, 13702, 13703, and 13704.

Approved and forwarded by:

Submitted by:

*F. L. Gallen*

F. L. Gallen

Chief of Party

*by S. R. Fish*

*Marvin C. Jenkins*

Marvin C. Jenkins

Sr. Eng. Aid

## BRIDGE AND TUNNEL CLASSIFICATION

### First Symbol

#### Capacity

A

B

C

D

E

F

### One Lane

5 mph

50 tons

25 tons

18 tons

10 tons

8 tons

Light vehicles only

### Unlimited

25 tons

18 tons

13 tons

7 tons

4 tons

### 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

## 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 variation in tones can be correctly interpreted in the office.

# 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	Loose-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 LANES. Change in lanes shown by short line and 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 Ho - Boat House  
Ch - Church (give name)  
Co Ho - Court House (give name)  
P.O. - Post Office (give name)  
Sch - School (give name)  
Hosp - 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 Ra - Airway Beacon  
Ra - Red-lighted aid to navigation  
Lt - Lighted aid to navigation  
Tk - Low tank  
Tk elev - Tank elevated on structure  
Stk - Stack

### GENERAL

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

### SHORE LINE

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

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

### STREAMS AND PONDS

D - Largest ditches only  
EK - Small ditch (delete)  
IS - Intermittent stream  
PD - Probable drainage  
Cr - Creek  
Ca - Canal  
Cv - Culvert  
L - Pond  
IP - Intermittent pond

Sw - Swamp  
Cy Sw - Cypress Swamp

Other control on the published map.

Triangulation Stations:

South Portland Power House  
Northeast Stack 1933  
South Portland Power House  
Southwest Stack 1933  
State Reform School  
East Tower 1941  
St. Stephen Church Tower  
Square Church Spire  
Roman Catholic Chapel Spire  
Portland Standpipe 1911  
Moses  
East Deering (U.S.E.) 1909

Bench Mark 69(U.S.G.S.)

1530

## 26 CONTROL:

The horizontal control stations used for the establishment of photograph centers, secondary control, and detail points within this quadrangle are as follows:

- ✓ WESTBROOK STACK, 1941
- TT12BT, 1940 (U.S.G.S.)
- TRAVERSE STATION 267 (This station was used as a Field Inspection Point for TT12BT, 1940 (U.S.G.S.))

Recovery notes of the horizontal control stations shown on the reproduced, red line, portion of this Map Manuscript were not furnished the Compilation Office and it is not known whether they remain in existence or have been destroyed. For a list of these stations, see the Descriptive Report of the original planimetric compilations No. T-5957 and No. T-5959.

## 27 RADIAL PLOT:

The radial plot for this Map Manuscript is part of Section 2 of the Main Radial Plots for Project CS-303, and is described in the Descriptive Report for Survey No. T-8511 which has been previously submitted to the Washington Office.

## 28 DETAILING:

The Compilation Office was furnished a red-line print on acetate, a portion of which is a reproduction of assembled portions of original 1:10,000 planimetric compilations reduced to 1:20,000.

Approximately 60% of the land area shown on the Map Manuscript was not covered by the above mentioned previous planimetric surveys.

After a number of well-defined image points had been established on the Map Manuscript by radial intersections, it was found that the planimetry of the red-line portion, reproduced from the original 1:10,000 planimetric surveys, was within the limits of accuracy required for War Mapping Projects.

Detailing of the reproduced red-line area required only slight corrections to the shore line and the addition or deletion of detail according to data furnished by the Field Inspection Party. This was accomplished by orienting the photographs under the acetate using common, well-defined points of detail for this purpose. This method was found satisfactory because of the near coincidence of scale of the photographs and the Map Manuscript.

The portion of the Map Manuscript not covered by the original reproduced planimetric surveys was detailed by the use of radially intersected



28 DETAILING (Cont'd.)

detail points. The topography was indicated on the office photographs with colored pigment inks and delineated from them to the Map Manuscript.

The data furnished the Compilation Office by the Field Inspection Party was satisfactory. Some questions concerning differences of interpretation between the Field Inspection Party and the Compilation Office have been noted on the discrepancy overlay which accompanies the Map Manuscript.

A list of the buildings in Westbrook is shown on the Map Manuscript, while a list of the buildings in Portland and environs is on a separate typewritten sheet and accompanies the Map Manuscript.

29 SUPPLEMENTAL DATA:

The Field Inspection Party furnished the Compilation Office with a map of Portland and South Portland, compiled in 1940 by the Fred. L. Towers Companies, and a map of Westbrook compiled from the City Sewer Map and from the U. S. Geological Maps.

Information from tracings on celluloid, of both the topographic (planetable) and hydrographic sheets of the Party of Commander Fred. L. Beacock of the year 1941, in the area covered by this Map Manuscript was used as supplemental data. Comparisons were made and no appreciable disagreements were apparent.

The topographic surveys are as follows:

Field letters M, N, P, and Q, Scale 1:5,000.

The hydrographic surveys are as follows:

Field No. 501 and Field No. 502, Scale 1:5,000.

30 MEAN HIGH-WATER LINE:

The stage of tide of all the photographs used in the process of detailing this Map Manuscript was computed and found to be between 6.6 feet and 7.7 feet above mean low-water. The high-water line as presented on the original reproduced planimetric surveys required only minor corrections.

31 LOW-WATER AND SHOAL LINES:

No low-water or shoal lines were indicated by the Field Inspection Party nor were any visible on the office photographs.

Tidal BM 2 (USE) 1901 (also BM 2)  
33 ( " " 33)

BM L-5, 1923

BM 37, 1919

BM K-5 (USGS)

**32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:**

The original planimetric surveys as reproduced on this quadrangle indicated many offshore details, such as rocks, piles, dolphins, and sunken wrecks. These have been permitted to remain on the Map Manuscript as the Field Inspection Party did not note their deletion on the field inspection data. It is assumed by the Compilation Office that these details still exist.

**33 WHARVES AND SHORELINE STRUCTURES:**

Many wharves and shoreline structures appear on the Map Manuscript in the Portland and South Portland area. However, none <sup>were</sup> discerned elsewhere in the quadrangle.

**34 LANDMARKS AND AIDS TO NAVIGATION:**

No data concerning new landmarks or fixed aids to navigation have been furnished the Compilation Office by the Field Inspection Party. See Descriptive Report for Planimetric Air Photographic Surveys Nos. T-5957 and T-5959 for those landmarks and fixed aids to navigation shown on the portion of this Map Manuscript which is a reproduction of those Planimetric Maps.

**35 HYDROGRAPHIC CONTROL:**

The same information under Paragraph No. 34 is applicable to Hydrographic Control.

**36 LANDING FIELDS AND AERONAUTICAL AIDS:**

One landing field, the Portland Airport, falls within the limits of this Map Manuscript. No other aeronautical aids were indicated by the Field Inspection Party or appear on the office photographs.

**37 DISCREPANCY OVERLAY:**

A discrepancy overlay has been prepared to accompany this Map Manuscript. On it are shown such notes as are deemed likely to be of assistance during the field edit. In addition, a set of general notes has been included to aid in the interpretation of symbols and abbreviations that are shown on the Map Manuscript.

**38 BENCH MARKS:**

Form No. 524 is submitted with this report, giving the position and description for each of the six bench marks which fall within the limits of this quadrangle.

39 GEOGRAPHIC NAMES:

The results of a geographic name investigation, by A. J. Wraight, have been furnished the Compilation Office on the Portland, Maine, 15 minute U. S. Geological Survey Quadrangle, and covers only that portion of this Map Manuscript which was not reproduced from the original planimetric surveys. A list of these geographic names accompanies this report. The geographic names on the remaining portion of this Map Manuscript were investigated previously and have been retained as presented on the red-line print of the original compilation.

40 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, under Paragraph No. 23, of the instructions for War Mapping Project GS-303, dated May 1, 1943.

41 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetry as presented on this Map Manuscript is believed to be complete, but is subject to Field Edit for corrections, additions, and deletions.

42 JUNCTIONS:

Satisfactory junctions have been made with the following Map Manuscript:

To the north with Map Manuscript for Survey No. T-8506.  
To the east with Map Manuscript for Survey No. T-8513.  
To the south with Map Manuscript for Survey No. T-8518.  
To the west with Map Manuscript for Survey No. T-8511.

43 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison was made with the U. S. Geological Survey, 15 minute quadrangle of Portland, Maine, Scale 1:62,500. Minute comparison was impossible due to the great differences in scale, but visual comparison of main roads and waterways showed good agreement.

No other existing topographic quadrangles of this area were available to the Compilation Office.

44 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with the U. S. Coast and Geodetic Survey Chart

4. COMPARISON WITH NAUTICAL CHARTS: (Cont'd.)

No. 325, scale 1:20,000, issued April 1943, and reissued June 19, 1943. Shoreline and topographic features of the chart seem to be in good agreement with all detail shown on this Map Manuscript. However, numerous objects of detail that do not appear on the photographs and have not been shown on the Map Manuscript, but are indicated on Chart No. 325, have been noted on the discrepancy overlay.

Two other U. S. Coast and Geodetic Survey Charts No. 315, scale 1:40,000, issued May 1943, and reissued August 9, 1943, and No. 1204, scale 1:80,000, issued March 1942, and reissued April 24, 1942, were noted, but due to the differences in scale, no accurate comparison could be made.

Respectfully Submitted:  
March 30, 1944

Edward H. Snyder  
Edward H. Snyder,  
Sr. Photogrammetric Aid

Map Manuscript, Discrepancy  
Overlay, and Descriptive Report  
Reviewed by:

William H. Van Loon  
William H. Van Loon,  
Prin. Photogrammetric Aid

Compilation of Map Manuscript  
Supervised by:

Joseph Steinberg  
Joseph Steinberg,  
Asst. Photogrammetric Engineer

and

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

Approved and Forwarded:  
April 1, 1944

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

FIELD EDIT REPORT  
TO ACCOMPANY  
QUADRANGLE T-8512  
PROJECT 303-D

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 and other features have been inspected and classified where omitted. Bridges have been classified according to instructions. The field edit notes were applied to the ozalid print of the compilation according to the following color scheme:

Additions ..... Black  
Deletions ..... Green  
Drainage ..... Blue  
Contours ..... Brown  
Boundaries ..... Purple

Notes on the 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.

*The vertical accuracy test against the contours is by an error. These were corrected on the manuscript by the reviewer in the Wash. office.*

48. Accuracy tests, both vertical and horizontal, are the subjects of special reports on Project 303-D. *The horizontal accuracy test showed two points outside the allowable error. This was corrected by the reviewer in the Wash. office. The original detailing was in error.*

49. Junctions have been checked with T-8511 on the west and T-8518 on the south.

Two changes have been shown on the compilation to effect a satisfactory junction with T-8513 on the east.

The junction to the north with T-8506 will be made when T-8506 is field edited.

Submitted by:

*L. G. Chambers per J. A.*  
L. G. Chambers  
Prin. Photo. Aid

Approved and forwarded by:

*F. L. Gallen*

F. L. Gallen  
Chief of Party

# LIST OF GEOGRAPHIC NAMES

(Undisputed)

- |  |                        |
|--|------------------------|
| ✓Allen Road                                  | ✓North Deering         |
| ✓Auburn Road                                 | ✓Piscataqua River      |
| ✓Barker School                               | ✓Presumpscot Falls     |
| ✓Beaver Pond                                 | ✓Presumpscot River     |
| ✓Beaver Pond Brook                           | ✓Prides Corner         |
| ✓Blackstrap Hill                             | ✓Red Brook             |
| ✓Blackstrap Road                             | ✓Riverside Road        |
| Boston and Maine (R.R.)                      | ✓Riverton Bridge       |
| ✓(Worcester-Nashua-Portland-Div.)            | ✓Riverton Park         |
| ✓Buxton Road                                 | ✓Running Hill          |
| ✓City Farm                                   | ✓Running Hill Road     |
| ✓Clark Brook                                 | ✓Rye Pond              |
| ✓Cobb Road                                   | ✓Saacarappa Falls      |
| ✓Cumberland County (County line not with-    | ✓Saco Road             |
| in the limits of this                        | ✓Sawyer Road           |
| (quadrangle)                                 | ✓Skilling School       |
| ✓Cumberland Mills                            | ✓Small Hill            |
| Deer Hill                                    | ✓Spring Road           |
| ✓Duck Pond Road                              | ✓Stroudwater River     |
| ✓East Branch                                 | ✓Stroudwater Street    |
| ✓Fall Brook                                  | ✓Summit Street         |
| ✓Falmouth (Township)                         | ✓Summit View Park      |
| ✓Forest Avenue                               | ✓Thompson Hill         |
| ✓The Four Corners                            | ✓Varney Brook          |
| ✓Gribb Brook                                 | ✓Village of Halidon    |
| ✓Gribb Hill                                  | ✓Warren Avenue         |
| ✓Hall Brook                                  | Westbrook (Town)       |
| ✓Hardy Road                                  | ✓Westbrook (Township)  |
| ✓Heath (The)                                 | ✓West Falmouth         |
| ✓Highland Lake                               | ✓West Falmouth Road    |
| ✓Inkhorn Brook                               | ✓West Falmouth Station |
| ✓Johnson Brook                               |                        |
| ✓Leighton Road                               |                        |
| ✓Libby Road                                  |                        |
| ✓Long Creek                                  |                        |
| ✓Longfellow Road                             |                        |
| ✓Lorenzen Hill                               |                        |
| ✓Maine Central (R.R.)                        |                        |
| ✓Maine Central (R.R. - <del>Mt. Div.</del> ) |                        |
| ✓Meader Brook                                |                        |
| ✓Methodist Road                              |                        |
| ✓Mill Brook                                  |                        |
| ✓Milliken Brook                              |                        |
| ✓Minnow Brook                                |                        |
| ✓North Branch                                |                        |



LIST OF GEOGRAPHIC NAMES

<u>Recommended</u>	<u>Disputed</u>
✓ Bridge Street	East Road
✓ Bridgton Road	Bridgeton Road Roosevelt Trail
✓ Brook Road	Austin Road
✓ Gowen Road	Mast Road
✓ Leighton Hill	Blackstrap Hill
✓ Milliken Hill	Ledge Hill Highland Cliff
✓ Pig Knoll	Wescott Hill
✓ Pleasant Hill	Presumpscot Smelt Hill
✓ Rocky Hill	Rook Hill

Name to be Deleted

Portland and Lewiston Electric

**Public Buildings In and in the Vicinity of Portland**  
**Photo. 13688 (Field Inspection)**

- |                                       |   |
|---------------------------------------|---|
| 1. Fire Department.                   | ✓58. Nathan Clifford School.                |
| 2. Cathedral Hall.                    | ✓59. Maine General Hospital.                |
| 3. Kavanaugh School.                  | ✓60. School.                                |
| 4. St. Pauls Ep. Church.              | 61. St. Lukes Episc. Cathedral.             |
| 5. Church of the Messiah.             | ✓62. Fire Dept.                             |
| 6. North School.                      | ✓63. St. Dominics Ch.                       |
| 7. Cumberland County Court House.     | ✓64. Holy Trinity Hellenic Orthodox Ch.     |
| 8. Congress St. M. E. Church.         | ✓65. St. Elizabeths Home.                   |
| 9. Fire Dept.                         | ✓66. Shaw Business College.                 |
| 10. St. Lawrence Cong. Ch.            | ✓67. First Universalist Ch.                 |
| 11. Emerson School.                   | ✓68. School.                                |
| 12. G. T. Railroad St. (Grand Trunk)  | ✓69. Fire Dept.                             |
| 13. U. S. Federal Building.           | 70. Butler School.                          |
| 14. School.                           | ✓71. Williston Ch.                          |
| 15. City Hall.                        | ✓72. McLellan School.                       |
| 16. Church of Christ.                 | 73. U. S. Marine Hospital.                  |
| ✓17. Second Parish Presb. Ch.         | ✓74. First Church of Christ Scientist.      |
| 18. Shailer School.                   | ✓75. St. Stephens Episc. Ch.                |
| 19. County Jail.                      | ✓76. State Street Hosp.                     |
| 20. Police Station.                   | ✓77. Mercy Hospital.                        |
| 21. City Electric Department.         | ✓78. State St. Ch.                          |
| 22. High School.                      | ✓79. St. Dominics School.                   |
| 23. First Lutheran Church.            | ✓80. Volunteers of America Gospel Mission.  |
| 24. Portland Soc. of Nat. Hist.       | 81. Cathedral of the Immaculate Conception. |
| 25. First Parish (Unitarian) Ch.      | 82. School.                                 |
| 26. Chestnut St. M. E. Ch.            | 83. St. Louis Ch.                           |
| 27. U. S. Navy Dispensary.            | 84. Advent Christian Ch.                    |
| 28. Armory.                           | ✓85. Walker Manual Training School.         |
| 29. U. S. Custom House.               | ✓86. Preble Chapel.                         |
| 30. Union Station.                    | 87. Boys Club.                              |
| 31. Jackson School.                   | ✓88. Hephzibah Pentecostal Ch.              |
| 32. Y. M. C. A.                       | 89. Church, Jewish.                         |
| 33. U. S. Post Office.                | ✓90. Scandanavian Bethlehem Cong. Ch.       |
| 34. Maine Central Power Co.           | ✓91. Pentecostal Ch.                        |
| 35. Trinity Episcopal Ch.             | 92. St. Peters Italian Ch.                  |
| 36. Heseltine School.                 | ✓93. Jewish Synagogue.                      |
| 37. School.                           | ✓94. Newbury Etz Chaim.                     |
| 38. Fire Dept.                        | 95. The Salvation Army.                     |
| 39. North Deering Com. Ch.            | ✓96. Italian M. E. Ch.                      |
| 40. School.                           | ✓97. Boxworth Memorial Bldg.                |
| 41. Maine State of Armory.            | ✓98. Y. W. C. A.                            |
| 42. Fire Dept.                        | ✓99. Haine School for the Deaf.             |
| 43. Stevens Ave. Cong. Ch.            | 100. School of Fine and Applied Arts.       |
| 44. Westbrook Jr. College.            | 101. Chamber of Commerce.                   |
| 45. All Souls Ch.                     | ✓102. Public Library.                       |
| 46. St. Josephs School.               | ✓103. First Baptist Ch.                     |
| 47. St. Josephs Ch.                   | ✓104. Vescott Veterinary Hospital.          |
| 48. St. Josephs Convent.              | ✓105. West Congregational Ch.               |
| 49. Samuel Wilde Mem. Ch.             | 106. First Ch. of the Nazarene.             |
| 50. Lincoln Jr. School.               | ✓107. School.                               |
| 51. Central Sq. Bap. Ch.              | ✓108. St. Patricks Catholic Ch.             |
| 52. School.                           | ✓109. School.                               |
| 53. School.                           | ✓110. Stroudwater Bap. Ch.                  |
| 54. Deering High School.              | ✓111. School.                               |
| 55. Brighton School.                  | ✓112. Church of the New Jerusalem.          |
| 56. Osteopathic Hospital.             | ✓113. Glenwood Square Baptist Ch.           |
| 57. School.                           | ✓114. School.                               |
| 116. Presumpscot Grange.              | 129. Church of the Sacred Heart.            |
| 117. Forrest Ave. Friends Meeting Ho. | ✓130. St. Ansgar Danish Lutheran Ch.        |
| 118. School.                          | ✓131. Washington Ave. M. E. Ch.             |
| 119. Warren Ave. M. E. Ch.            | 132. St. Peters Episcopal Ch.               |
| 120. Fire Department.                 | ✓133. African M. E. Zion Ch.                |
| 121. Morrow School.                   | ✓134. Immanuel Lutheran Ch.                 |
| 122. Clark Memorial Ch.               | ✓135. White Memorial Ch.                    |
| 123. Fire Department.                 | ✓136. Friends Meeting Ho.                   |
| 124. Woodfords Cong. Ch.              | ✓137. Clapp Memorial Bldg.                  |
| 125. Maine Inst. for the Blind.       |   |
| 126. Portland Exposition Bldg.        |   |
| 127. Maine Eye and Ear Infirmary.     |   |

## Remarks.

## Decisions

1	See nautical chart 325 for a few names	USCB
2		
3		
4		
5		Railway Guide
6		"
7		"
8		Road Maps
9		"
10		"
11		
12		436702: remaining names
13		on this page all on
14		this section sheet
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# GEOGRAPHIC NAMES

Survey No. T-8512

PORTLAND WEST quadrangle

1 Name on Survey

	A	B	C	D	E	F	G	H	K	
✓ Maine										1
Cumberland County										2
Towns of South Portland, Scarborough, Portland, Westbrook, Windham										3
Falmouth										4
Boston & Maine R.R.										5
Maine Central R.R.										6
Canadian National Railways										7
U.S. No. 1, No. 302										8
State Roads 9, 22, 25, 3/26										9
" " 77, 112, 114; these may be in part on this quadrangle										10
										11
✓ Portland										12
Portland Harbor										13
✓ Fore River										14
✓ Knightville										15
✓ Portland Bridge										16
✓ Pleasantdale										17
Barren Hill										18
✓ Turner Island										19
✓ Barberry Creek										20
✓ Browns Hill										21
✓ Cash Corner										22
✓ Vaughan Bridge										23
Portland Terminal Bridge										24
Long Creek										25
✓ Iigonia										26
✓ Thompson Point										27

## Remarks

## Decisions

1		436702: names through
2		line 14 on this section
3		sheet
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15		437702: remaining names
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24	Pending with USGB	
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# GEOGRAPHIC NAMES

Survey No. T-8512

GEOGRAPHIC NAMES		Survey No. T-8512										
		<div>On Chart No.</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map.</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div>										
2	Name on Survey	A	B	C	D	E	F	G	H	K		
✓	<u>Bradley Corner</u>										1	
✓	<u>Brighton Corner</u>										2	
✓	<u>Oakdale</u>										3	
✓	<u>Libbys Corner</u>										4	
✓	<u>Deering</u>										5	
✓	<u>Woodfords</u>										6	
✓	<u>Back Cove</u>										7	
✓	<u>Barter Boulevard</u>		(northe and west sides Back Cove; T-6849b)									8
✓	<u>East Deering</u>										9	
✓	<u>Fall Brook</u>										10	
✓	<u>Tukey Bridge</u>										11	
✓	<u>Presumpscot River</u>										12	
✓	<u>Rocky Hill</u>										13	
✓	<u>Deering Junction</u>		(omit Morrils)									14
✓	<u>Graves Hill</u>										15	
✓	<u>North Deering</u>										16	
✓	<u>Auburn Road</u>										17	
✓	<u>Allen Road</u>										18	
✓	<u>Cobb Road</u>										19	
✓	<u>Summit Street</u>										20	
✓	<u>Summit View Park</u>										21	
	<u>Graves School</u>										22	
✓	<u>Presumpscot Falls</u>		(falls in river)									23
✓	<u>Pleasant Hill</u>		(settlement)									24
✓	<u>Barker School</u>										25	
✓	<u>West Falmouth Road</u>										26	
✓	<u>West Falmouth Station</u>										27	

Remarks.

Decisions

1		437702
2		"
3		"
4		"
5		"
6		"
7		"
8		437703: remaining names
9		on this section sheet
10		except line 16
11	Pending with USGB	
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14	Pending with USGB	
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16		436703
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# GEOGRAPHIC NAMES

Survey No. T-8512.

GEOGRAPHIC NAMES											
Survey No. T-8512.											
3	Name on Survey										
		A	B	C	D	E	F	G	H	K	
✓	<u>Piscataqua River</u> ✓	✓									1
✓	<u>East Branch</u> ✓	✓									2
✓	<u>North Branch</u> ✓	✓									3
✓	<u>Leighton Road</u> ✓	✓									4
✓	<u>J hnson Brook</u> ✓	✓									5
✓	<u>West Falmouth</u> ✓	✓									6
✓	<u>Hall Brook</u> ✓	✓									7
✓	<u>Blackstrap Hill</u> ✓	✓									8
✓	<u>Blackstrap Road</u> ✓	✓									9
✓	<u>Leighton Hill</u> ✓	(partly here)									10
✓	<u>Highland Lake</u> ✓	(village)									11
	<u>Price Road</u>	(partly here)									12
✓	<u>Sawyer Road</u> ✓	✓									13
✓	<u>Milliken Hill</u> ✓	✓									14
	<u>Small Hill</u>	(partly here)									15
	<u>Inkhorn Brook</u> ✓	✓									16
✓	<u>Hardy Road</u> ✓	✓									17
✓	<u>Milliken Brook</u> ✓	✓									18
✓	<u>Lorenzen Hill</u> ✓	✓									19
✓	<u>Methodist Road</u> ✓	✓									20
✓	<u>River Road</u> ✓	✓									21
✓	<u>Mill Brook</u> ✓	✓									22
✓	<u>The Heath</u> ✓	✓									23
✓	<u>Bridgton Road (Roosevelt Trail)</u> ✓	✓									24
✓	<u>Duck Pond Road</u> ✓	✓									25
✓	<u>Minnow Brook</u> ✓	✓									26
✓	<u>Gowen Road</u> ✓	✓									27



T-8512

4

Remarks

Decisions

1		437703
2		"
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11		436703: remaining names on this section sheet
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# GEOGRAPHIC NAMES

Survey No. T-8512

4	Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
✓	<u>Meader Brook</u>	✓								1
✓	<u>Brook Road</u>	✓								2
✓	<u>Frides Corner</u>	✓								3
✓	<u>The Four Corners</u>	✓								4
✓	<u>Gribb Hill</u>	✓								5
✓	<u>Gribb Brook</u>	✓								6
✓	<u>Riverside Road</u>	✓								7
✓	<u>Riverton Park</u>	✓								8
✓	<u>Riverton Bridge</u>	✓								9
✓	<u>Varney Brook</u>	✓								10
✓	<u>Forest Avenue</u>	✓								11
✓	<u>Warren Avenue</u>	✓								12
✓	<u>Bridge Street</u>	✓								13
✓	<u>Rocky Hill</u>	✓								14
✓	<u>Saccoarappa Falls</u>	✓								15
✓	<u>Village of Halidon</u>	✓								16
✓	<u>Westbrook</u>	✓								17
	<del>Indian Camp Brook (a little of it here)</del>									18
	<del>Totokine Road</del>	"								19
	<del>Wether Road</del>	"								20
	<del>New Graham Road</del>	"								21
✓	<u>Saco Road</u>	✓								22
✓	<u>Beaver Pond</u>	✓								23
✓	<u>Cumberland Mills</u>	✓								24
✓	<u>Deer Hill</u>	✓								25
✓	<u>Evergreen Cemetery</u>	✓								26
✓	<u>Nasons Corner</u>	✓								27

## Remarks.

## Decisions

1		436703: all names
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3		section sheet
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# GEOGRAPHIC NAMES

Survey No. T-8512

GEOGRAPHIC NAMES											
Survey No. T-8512											
5	Name on Survey										
		A	B	C	D	E	F	G	H	K	
	City Farm									1	
	Capsic Brook									2	
	Stroudwater									3	
	Stroudwater River									4	
	Stroudwater Street									5	
	Peaver Pond Brook									6	
	Clark Brook									7	
	Thompson Hill									8	
	Buxton Road									9	
	Spring Road									10	
	Running Hill									11	
	Running Hill Road									12	
	Skilling School									13	
	Libby Road									14	
	Payne Road									15	
	Pig Knoll									16	
	Red Brook									17	
	Rye Pond									18	
	Long Creek Village									19	
	Sandy Hill									20	
	State Reform School									21	
										22	
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										27	

Names underlined in red approved  
by L. HECK on 5/21/44

M 234

Names underlined in red approved  
by L. Heck on 5/21/44

# DIVISION OF CHARTS

## SURVEYS BRANCH

### REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8512

#### PORTLAND, WEST QUADRANGLE ME.

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: Two points which were outside the allowable error were corrected during review.

Vertical: Two contours were adjusted to meet the standard or accuracy.

#### 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-735	1/10000	1857-8	T-6852 a b	1/5000	1941
878	1/20000	1962	6847 b	"	"
1111	1/5,000	1867	6849 b	"	"
1140ab	1/1200	1869	6845 a	1/10000	"
1141ab	"	"			
1142ab	"	"	USGS Portland,	1/62500	1916
1143 ab	"	"	USE Portland,	1/62500	1941
1144 ab	"	"			

	315	1/40000	Aug. 1943
<u>Comparison with Nautical Charts Nos.</u>	325	1/20000	June 1943
	1204	1/80000	Dec. 1943

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:

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

Report compiled from notes left by reviewer. LTS

Reviewed B.G.  
under direction of D. H. Benson

By Harlan E. Rees per TS  
26 May 1944

Inspected by B. G. Jones

B.G. Jones 5/49

Examined and approved:

Chief, Surveys Branch

for Chief, Div. of Charts

K.T. Adams  
Chief, Topography Section

Division of Photogrammetry

Wm. Acaphe  
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.