

5770

Diag'd. on Diag. Ch. No. 1207-2

Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. T-5770

State Massachusetts

LOCALITY

North Boston, Massachusetts

Somerville, Everett, Chelsea,

Medford, Revere, Saugus, Melrose,

and Stoneham, Mass.

(Photographs -
9 lens - July 1938
Single lens - Dec. 38 +
April 39)

1938/41

CHIEF OF PARTY

L. W. Swanson

U. S. GOVERNMENT PRINTING OFFICE 102281

0225

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. T-5770

REGISTER NO.

State MassachusettsGeneral locality North Boston, MassachusettsSomerville, Everett, Chelsea, Medford,Locality Malden, Revere, Saugus, Melrose, and Stoneham, Mass.photographs - Single lens 12-16-38 and 4-10-39Scale 1:10,000 Date of survey July 17, 1938, from 8:45 to 10:00 A.M.Vessel Air Photographic Party No. 2Chief of party L. W. SwansonField Inspection - David M. WhippSurveyed by Radial Plot - L. M. Zeskind and J. E. Deal, Jr.Shore line - I. M. ZeskindInked by Detail - J. Edward Deal, Jr.Heights in feet above mean sea level to ground to tops of treesContour, Approximate contour, Form line interval 10 feetInstructions dated August 15 and November 3, 1939

Remarks: _____

G P O

Complete survey received: 24 Jan, 1942

Reviewed: 27 Sept. 1944

Redrafted: 6 April, 1945

Published: 18 April, 1946

Registered: 8 June, 1948

DATA RECORD T-5770

PHOTOGRAPHS

NUMBER	DATE	TIME	SCALE	AH	STAGE OF TIDE*
2485 to 2487	July 17, '38	8:45 to 10:00 AM	1:10,000	Unknown	0.3 Ft. Above M.L.W.
2462 to 2465	"	"	"	"	"
2459 to 2461	"	"	"	"	"
2439 to 2440	"	"	"	"	"
2488 to 2490	"	"	"	"	"
2505 to 2507	"	"	"	"	"
2509 to 2511	"	"	"	"	"
GSF 9-178 to 9-183	Dec. 16, '38	Unknown	"	"	Unknown
GSF 13-06 to 13-11	4/10/39	Unknown	"	"	Unknown

*Tide from predicted tables for Boston, Mass. (Commonwealth Pier 5), with time correction to Medford Bridge, Mystic River, Massachusetts. Mean range 9.5 feet - Spring range 10.8 feet.

Cameras: U. S. Coast and Geodetic Survey 9-lens (Focal length $8\frac{1}{4}$ inches)
 U. S. Geological Survey single-lens (Focal length unknown)
 All negatives on file in Washington Office

SUPPLEMENTAL SURVEYS

Graphic Control Sheets None
 Field Inspection David M. Whipp February 6 to March 13, 1940
 Name Investigation David M. Whipp February 6 to March 13, 1940

GENERAL INFORMATION

Chief of Party L. W. Swanson
 Projection by Ruling Machine, Washington Off .. 10/26-27/39
 Projection checked by Washington Office 10/27/39
 Control plotted by J. L. Rihn & I. M. Zeskind 3/30/40
 Control checked by I. M. Zeskind & R. A. Gilmore 4/2/40
 Radial plot by I. M. Zeskind 4/10/40 to 4/12/40
 Radial points pricked by I. M. Zeskind 4/10/40 to 4/30/40
 Additional radial points pricked by J. E. Deal, Jr. 9/2/41 to 12/30/41
 Shore line inked by I. M. Zeskind 4/10/40 to 4/30/40
 Detail inked by J. E. Deal, Jr. 9/2/41 to 12/30/41
 Scale 1:10,000 (No scale factor)

STATISTICS

Area (land) 31 square statute miles
 Shore line (more than 200 m. from opposite shore) None
 Shore line (less than 200 m. from opposite shore) 8.5 statute miles
 Roads, streets, trails Metropolitan area
 Railroads 15.4 statute miles
 Time required for detailing, Sept. 1, 1941, to Dec. 31, 1941 .. (92 working days)

REFERENCE STATION

Fells, 1933

Latitude $42^{\circ} - 25' - 59.171''$ (1825.8 meters) Datum N.A. 1927 (Adjusted)
 Longitude $71^{\circ} - 06' - 18.335''$ (419.1 meters)

Mass. State plane coordinates *Sys.*
 Mainland zone

$X = 706612.15$ ft.

$Y = 522468.19$ ft.

DESCRIPTIVE REPORT
TO ACCOMPANY AIR PHOTOGRAPH

Sheet No. T-5770

Instructions dated Nov. 3, 1939

LAND FORMS

The sheet covers a thickly populated inland area which has low rounded hills, with occasional obstructions of hard granite. The vegetation is predominantly deciduous shade trees and brush.

MARSHES

The marshes in this area are mostly salt grass and mud. Along the tidal rivers they would be covered during abnormal high water, but bare at all other times.

CONTROL

The photographs are controlled by recovered triangulation stations of the U. S. Coast & Geodetic Survey, and recovered triangulation and traverse stations of the Mass. Geodetic Survey. The positions of the later stations are on the Mass. Grid, which is a Lambert projection using Y = 0, at Lat. $41^{\circ} 00' 00''$ and X = 600,000 feet at Long. $71^{\circ} 30' 00''$.

PLANETABLE WORK RECOMMENDED

On the Mystic River west of the junction of the Malden River with the Mystic River, a large sewer is being laid in the flat the elevation of which is approximately mean high water. The waste dirt from this construction; and material from other sources, is being used to fill various areas in the flat, with resultant changes in the high water line. This work is still in progress, and it is believed that it will not be completed this year. It is recommended that planetable survey be run to determine the high water line and marsh area for about $3/4$ of a mile along the Mystic River, upstream from the mouth of the Malden River.

ROAD CLASSIFICATIONS

Streets and roads in the Commonwealth of Massachusetts are divided into two classes, Accepted Streets, and Approved Streets, sometimes called Private Ways. There is no difference on the ground between an Approved Street, and an Accepted Street. The actual difference being that the right of way of an Approved Street belongs to the people living adjacent to it, and the maintenance of these streets is borne by them, while the right of way of an Accepted Street belongs to the town, and the street is maintained by the town. In classifying streets and roads, no account was taken of this difference.

CLASSIFICATION OF STREETS PREVENTED BY SNOW

The major part of this field inspection was made during a heavy snow, which prevented seeing the street surfaces. Many streets which are normally cleared after a snow storm were left unplowed due to the abnormal snow conditions. Consequently classification of the streets in the western area of the sheet was difficult and many streets were not classified on the photograph. It is the belief of the Officer who made the inspection that all second class streets are so marked, and that no great error would be introduced by assuming all other streets to be first class.

GEOGRAPHIC NAMES

A sketch has been prepared showing the data secured on Geographic names. In field book Vol. 2, are listed all the persons and publications consulted concerning geographic names. Each person was assigned a number, and each publication was assigned a lower case letter. The names appearing on the sketch have near them the number or letter corresponding to the source which verified that particular name. The names recommended for use are circled in red.

Respectfully submitted,

David M. Whipp

David M. Whipp,
Deck Officer

Approved and forwarded,
March 21, 1940

Edward A. Warwick
E. A. Warwick
Lieut. Col., USCGS,
Comdr. M. V. GILBERT.

CONTROL STATIONS appearing on published map but not
listed in the Descriptive Report:

Revere, Forbes Lithographic Co., Cupola, 1919, r 1939
Chelsea, Soldiers Home Tank, 1916, r. 1939
Fells, Magnetic, 1934, r. 1939
* Chelsea, Powderhorn Radio Mast, 1934, r. 1939
Lookout Flagstaff, 1934
Powderhorn 4, 1938,
Slade, 1937
Pope, 1937
Mystic Reservoir, 1892
Windy, 1934
East End 2, 1934
Mack, 1934
Revere, City Hall Cupola, 1919, r. 1933
Revere, Spire with Cross, 1919, r. 1933
Revere, School House, Green Cupola, 1919, r. 1933
Revere, Cushmans House Cupola, 1847, r. 1933
Chelsea, Black Brick Stack, 1916, r. 1933

Traverse Stations, Mass. Geod. Survey:

43-D	41-T
43-E	41-U
43-F	41-V
43-G	41-W
43-GA	
43-GB	
43-H	
43-J	

Two radio masts appearing on the map as undescribed
topographic stations are now listed as triangulation
stations, Geographic Positions (Form 28-B), p 430.

Medford, WEEI radio tower, east, 1943, r 1944 (d)	
42° 24'	22.978"
71 05	08.873
Medford, WEEI radio tower, west, 1943, r 1944 (d)	
42° 24'	22.990"
71 05	18.730

Listed at time of map registration.
ITS June 8, 1948

* Letter 24 May, 1948, Air Nav. Fac. Sect. No. 1416
"Tower no longer exists."

DESCRIPTIVE REPORT
TO ACCOMPANY
AIR PHOTOGRAPHIC SURVEY SHEET NO. T-5770
STATE OF MASSACHUSETTS
NORTH BOSTON

Somerville, Everett, Chelsea, Medford, Malden, Revere, Melrose, Saugus, Stoneham

Date of this Report: December 31, 1941

INSTRUCTIONS:

This map drawing is a part of Project HT-227. Instructions are dated August 15 and November 3, 1939.

FIELD INSPECTION:

Field inspection and investigation of geographic names of this sheet were made by David M. Whipp, Deck Officer, from February 6 to March 13, 1940.

PHOTOGRAPHS:

The nine-lens photographs were taken with the U. S. Coast and Geodetic Survey nine-lens camera. The single-lens photographs were obtained from the U. S. Geological Survey. The single-lens photos were originally on a scale of 1:24,000 and were enlarged to a scale of 1:10,000 for use by this party.

CONTROL:

The control used on this sheet consists of 27 U. S. Coast and Geodetic Survey stations, 15 Massachusetts Geodetic Survey stations, 2 U. S. Engineers Stations and 2 F.I.S. stations. The stations that are listed as follows are within the detailed limits of this sheet:

U. S. Coast and Geodetic Survey

✓ Bakers, 1933
✓ Fells, 1933
✓ Lookout, 1934
✓ Medford Standpipe, Middlesex Fells, 1934
✓ Medford Tower, Lawrence Observatory, 1934
✓ Stack, Malden Hospital, 1934
✓ Stack, Medford, Riverina, 1934
✓ Tufts, 1934
✓ Powderhorn No. 3, 1933
✓ Revere, Cath. Church Tower, 1934
✓ Revere Gas Co., Stack, 1934
✓ Revere Gas Co., Gas Tank, 1934
✓ Spire, Everett Immaculate Cath. Ch.

Mass. Geodetic Survey

✓ Bery, 1934
✓ Cairn, 1892, 1934
✓ Converse, 1934
✓ Felton, 1934
✓ Hancock, 1934
✓ Lincoln, 1934
✓ Melrose City Hall Spire, 1933
✓ Mount Hood, 1934
✓ Shurtleff, 1934

→ Waytes, 1934
→ 40D
→ 41A
→ 62B
→ 62S

U. S. ENGINEERS

→ Girder, 1915
→ Park, 1915

FIELD INSPECTION STATIONS

F.I.S. Mast (Powderhorn No. 3)
F.I.S. Saugus Standpipe (Bakers, 1933)

The stations on the sheet that fall outside the detailed limits of this map drawing are as follows: U. S. C. & G. S. STATIONS

Cupola, Winchester Town Hall, 1934
Spire, Winchester, Congregational Ch., 1934
Stack, Winchester Beggs 1934
Stack, Winchester, Gelatin, 1934
Tank, Winchester, Beggs, 1934
Woburn E.M.S. Stack, 1934.
Cambridge Dewey Tank, 1934
Cambridge St. Johns Cath. Ch. Tower, 1934
Somerville St. Annes Cath. Ch. Tower, 1934
Somerville, Ford Tank, 1934
Chelsea Forbes Litho. Co. Stack 1934
Saugus, W.H.D.H., South Radio Mast, 1934
Marine Hospital Tank
Everett Merrimac Chem. Stack 1934

MASS. GEODETIC STATIONS

Mt. Zion, 1934

RADIAL PLOT:

The main radial plot for this map drawing was made from April 10, 1940, to April 12, 1940. At this time the photographs showed no appreciable paper distortion.

All the photographs on this sheet are strongly fixed by existing triangulation control.

Each photograph was layed separately so that radial lines through the control spotted on all but the center chamber of the photo resected as nearly as was possible the triangulation as plotted on the map drawing. The center of the photo was then pricked on the map drawing and is indicated by double blue circles. Good resections on triangulation and nearly perfect joining of flight lines at adjacent photo centers was possible with most of the photographs. In a few cases errors in the printing of the center chambers and in the matching of the outer chambers during the printing of the photographs made it difficult to accurately locate the photo center on the map drawing.

The single lens photographs 9-183 to 9-178 inclusive showed distortion at the time this radial plot was layed. In most cases the triangulation stations that fell along the outer edges and in the corners of these photographs could not be held. The centers of these photographs were pricked by holding the triangulation stations that fell approximately midway between the center and the edge of the photograph.

No secondary control points were established as it was felt that sufficient triangulation control existed on this sheet for the establishment of any radial points necessary for detailing the sheet.

Sept. 2 to Dec. 31, 1941

As there were no secondary control points established during the running of the plot, for locating the centers of the photographs, it was considered advisable to establish strong points which could be used in conjunction with the triangulation stations, for cutting in radial points for detailing this map. Well defined points such as intersections of walks, pitchers box or home plate of baseball diamonds, curb corners and intersections of streams and trails were pricked on the photographs. Only points that were common to the nine-lens and single-lens photographs were used. These points were shown by double red circles on the photographs and were radially cut in over the entire sheet. Only cuts from nine-lens photographs were used. An attempt was made to orient the nine-lens photographs 100%, but owing to bad chambers and distortion this was impossible in most cases. Sufficient triangulation stations appear on this sheet to orient the photographs in chambers. This was done whenever necessary. In order to eliminate any error due to tilt no center chamber cuts were used. Tilt was computed on Photograph No. 2463 and the degree of tilt was established to be $2^{\circ} 12'$. The iso-center was used on this photograph and radials were improved. Excellent intersections were obtained from this method and strong secondary control points were established over the entire sheet. These points are designated by double circles in purple ink on the smooth sheet. These points were used in conjunction with the triangulation stations to orient the single-lens photographs G.S.F. 13-183 to 13-178 inc., in sectors. Very strong radial points for detail were obtained by this method.

DETAIL:

The shore line and adjacent areas were detailed in compliance with Field Memorandum No. 1 (1938) directly from the photographs using the center chambers only. Radial points used along the shoreline were in general all on the high water line. The scale of the center chambers of the photographs was such that all radial points and hydrographic signals not elevated matched favorably with the radial plot and very little adjusting between radial points was necessary.

ROADS AND STREETS:

Roads and streets were detailed according to the field inspection notes as shown on the field inspection photographs. In many cases it was very difficult to establish the correct width of streets and roads due to foliage covering the streets on the nine-lens photographs and snow covering the streets on the single-lens photographs. In many cases streets that upon examination of the photograph in this office would have been classed as Class No. 2 streets or trails were classed No. 1 on the field inspector's report.

HYDROGRAPHIC SIGNALS (permanent objects) changed to
 Topographic Stations on map but no form 524 filed:

Tall, yellow stack	42°	24+	71°	03+	
Stack, west of three	42	24+	71	04+	
Stack	42	24+	71	04+	
Radio Mast, east	42	24+	71	05)	see list preceding
Radio Mast, west	42	24+	71	05)	Descr Rept text
Brick stack	42	24+	71	05+	
Stack	42	24+	71	06+	
Stack (Fm. 524)	42	24+	71	06+	
Stack (Fm. 524)	42	25+	71	06+	
Church Spire	42	25+	71	06+	
Dome, City Hall	42	25+	71	06+	
Stack (Fm. 524)	42	27+	71	00+	

These streets or roads were shown as Class No. 1 on the sheet. Where streets and roads were not classed on the field inspection photographs, the city or town map of the area was used to classify these streets or roads. In the area known as Middlesex Fells, and in the other heavily wooded areas, all roads not classified on the field inspection photographs were shown as trails. In these areas it was very difficult to secure sufficient radial points to accurately plot these trails and roads due to foliage on the nine-lens photographs. As these areas were fully covered by the single-lens photographs along the northern part of the sheet, the detailing was taken from these photographs. Inspection of these photographs showed very little lay back of elevated areas. It is felt that the sheet is complete for charting purposes in these areas.

BUILDINGS:

All buildings are shown along the shore line. Only public buildings and other large buildings of importance are shown throughout the balance of this sheet.

WOODED AREAS:

Wooded areas not fully shown have been outlined and labeled.

REMARKS:

In the southwest corner of this sheet adjacent to the Mystic River is an area outlined by a dashed black line. Due to sewer construction work and fill a plane table survey by the hydro party is recommended in this area. *Single lens photos taken in 1944 do not cover this area - therefore no corrections have been made. Detail taken from photo 2464 taken July 17, 1938.*

The names of all streets have not been shown, but a sufficient number of street names have been indicated with which orientation of the various town maps is readily possible.

HYDROGRAPHIC SIGNALS:

A number of natural objects have been located on this sheet for use as hydrographic signals. These objects are shown by black circles 1.5 m. in diameter. *Changed during review to 2.5m. topo stations. All permanent objects.*

RECOVERABLE TOPOGRAPHIC STATIONS:

Descriptions on card Form No. 524 are submitted for four objects which are shown on this sheet, i.e.

Stack, Lawrence Memorial Hospital
Stack, Lat. $42^{\circ} - 24'$ to Lat. $42^{\circ} - 25'$ (*Nedford, East of Tufts College*)
Long. $71^{\circ} - 06'$ to $71^{\circ} - 07'$
Stack, Lat. $42^{\circ} - 27'$ to Lat. $42^{\circ} - 28'$ (*Saugus, East of Saugus RR Sta*)
Long. $71^{\circ} - 00'$ to $71^{\circ} - 01'$
Stack, Lat. $42^{\circ} - 26'$ to Lat. $42^{\circ} - 27'$ (*East of map limit*)
Long. $70^{\circ} - 59'$ to $71^{\circ} - 00'$

COMPARISON WITH PREVIOUS SURVEYS:

Topographic Survey No. T-2190 (1894)

The railroads and main streets are in good agreement.

Some man-made changes have apparently been made in the Mystic and Malden Rivers.

There are no previous surveys north of Lat. $42^{\circ} - 25'$,

east of Longitude $71^{\circ} - 03'$.

There are no previous surveys north of Lat. $42^{\circ} - 25' - 30''$ and west of Long. $71^{\circ} - 07'$.

JUNCTIONS:

The junction with T-5771 on the south which is now being detailed is in good agreement.

The junction with T-5773 on the east is in good agreement.

The junction with T-5774 on the east is in good agreement.

There are no map drawings to the north and west of this sheet.

COAST PILOT AND BRIDGE INFORMATION:

Corrections were made in duplicate on pages of the Coast Pilot, Atlantic Coast, Section A, 1933, and were forwarded to the Washington Office on February 9, 1940.

GEOGRAPHIC NAMES:

The geographic names in this area are listed on Form M-234 in the appendix of this report. They have been tabulated according to the geographic name inspection by David M. Whipp, Deck Officer, during February and March, 1940.

LANDMARKS:

No landmarks for charts appear on this sheet.

RECOMMENDATION FOR FUTURE SURVEYS:

This sheet is believed complete in all detail of importance for charting except the area previously mentioned in this report.

The probable error of radial points and of well defined objects along the shore line is not greater than 0.5 m.m. The error of inland radial points and detail of importance is not greater than 1.0 m.m.

Respectfully submitted,

J. Edward Deal, Jr.

J. Edward Deal, Jr.
Senior Photogrammetric Aid

Forwarded and Approved:

L. W. Swanson
L. W. Swanson
Chief of Party

GEOGRAPHIC NAMES

Survey No.

See NW 1st

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.
Towners Pond	✓			2,5,6 & 7	d & f				1
Swains Pond	✓			2,5,6 & 7	d & f				2
Linden Brook	✓			17					3
Cliftondale	✓			6,7,& 8	h.				4
Long Pond Brook	✓			5 *	d.				5
Saugus River	✓		j	2,6& 7	f				6
Saugus	✓			7	f & d				7
Franklin Park	✓		j	6 & 8					8
Diamond Cr.	✓				m				9
Pines River	✓				f,h,& m				10
Revere	✓				f & m				11
Mill Creek	✓				m & o				12
Chelsea River	✓			j	8,17,18 f				13
Chelsea Creek	✓				20&21				14
Chelsea	✓				8	f			15
Everett	✓					f			16
Malden	✓					f			17
Felsmere Pond	✓				5,7,13 15&17				18
Mystic River	✓					f,g, & h			19
Gravel Creek	✓				7	f			20
Medford	✓					f & g			21
Malden River	✓				7,8, 11				22
Alewife Brook	✓				6,7,8 9&12				23
Somerville	✓		j			d,g,& h			24
Wellington	✓								25
Stoneham	✓								26
Melrose	✓								27

Remarks

Decisions

1		424710
2		"
3		"
4		424710
5	* A good portion of this brook is now covered	"
6		424709
7		424710
8		424710
9		424709
10		" U.S.G.B.
11		424710
12		"
13	1945 U.S.G.B. Decision	423710
14		423710
15		424710
16		424710
17	Known as Little Duck Pond (5) Known as Reservoir (16)	"
18		423710
19	Known as Gravelly Creek (6) and (16)	424710
20		424710
21		424710
22		"
23		423710 U.S.G.B.
24		424710
25		" } see title
26		"
27		

Names underlined in red approved

by L. H. Hark on 8/8/42

Further check needed when sheets completed

→ Pending with U.S.G.B. use this name pending its decision.

E -- ON LOCAL MAPS

- a - U. S. Coast and Geodetic Survey Charts
- b - Map "City of Woburn" (blue print) ✓
- c - Zoning Map, Stoneham, Mass., December, 1930, Amended ✓
to January 1, 1936
- d - Map "City of Melrose" 1938 ✓
- e - Map "Town of Winchester, Mass., 1937" ✓
- f - Mass. City and Town Maps Essex, Middlesex & Suffolk,
Vol. III, as compiled by Mass. Geodetic Survey, 1938 - L.I.
- g - Map of "The Town of Arlington - January, 1940"
- h - Map of Middlesex Co., Mass., January, 1940
- j - Mass. Boston Quadrangle, Dept. of Interior, U. S. Geological
Survey Edition, July, 1903, Reprint 1931
- l - Map of City of Medford, Mass., March 1, 1939 ✓
- m - Map of City of Revere, Mass., 1939 ✓
- o - Map of City of Chelsea, Mass., 1927

GEOGRAPHIC NAMES

Survey No.

See new list.

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.
Aberjona River				1,4,7 & 12	e & f				1
B. & M. R. R.					L				
Leonard Pond				1,7&9 *					3
Long Pond (Winchester)				6	e				4
Winchester					e,b, c,f				5
North Reservoir				1,3 & 7	c,e& f				6
Bear Hill				1,3,4 & 7					7
Bear Hill Reservoir				3,5& 6					8
Middle Reservoir				1,3,& 7	c,e& f				9
South Reservoir				1,3,& 7	e&f				10
Duck Pond				1,3,4, 5,8,12,&15 7 & 8) Included under Duck) Pond, Column D				11
Middlesex Fells Reservation			j	7 & 8	f				
Spot Pond				1,3& 7	c,d,f & h				13
Stoneham					c,b,d, e,f&h				14
Little Spot Pond				6,15,16, 17&18*					15
Shiner Pd.				16	c & f				16
Hemlock Pool				16&18					17
High Service Reservoir				5,6,&7	d				18
Wrights Pond *				3,6,7 & 15*	f				19
Spot Pond Brook *				5 & 7	d				20
Ell Pond				5,6,7 *	d,f,h				21
Ell Pond Brook *				7 *	d *				
Melrose					d,b, & f				23
Stevens Pond				2,3,7 & 8					24
Long Pond (Saugus)				5 & 7	d & f				25
Mt. Hood Ponds				5 & 8 *					26
Mt. Hood				18,19 20&21					27

Remarks

Decisions

1		
2		
3	*Also known to a few people as Leonard Field Beach	
4		
5		
6		
7		
8		
9		
10		
11	Known as <u>Dark Hollow</u> (7)	
12		
13		
14		
15	*Also known as 1/2 Mile Pond (3) and (5) Also known as 1/4 Mile Pond (7) and (14)	
16		
17		
18		
19	Also known as Ben Pond (5)	
20	* A good portion of this Brook is now covered *	
21	* Also known as Crystal Pond *	
22	* Most of brook has been covered	
23		
24		
25		
26	Also known as Stillman Ponds (18) and (19) *	
27		

COLUMN D -- FROM LOCAL INFORMATION

- (1). L. I. Thompson, 351 Washington St., Winchester, Mass.,
Ass't to Town Engineer - 8 Yrs. Local Knowledge
- (2). A. L. Bernhard, Saugus, Mass., Draftsman B. & M. R.R. -
18 Yrs. Local Knowledge
- (3). M. J. Markham, 35 Lincoln Street, Stoneham, Mass., Town
Engineer of Stoneham - 20 Yrs. Local Knowledge
- (4). F. I. Hill, City Hall, Woburn, Mass., WPA Supervisor,
8 Yrs. Local Knowledge
- (5). E. H. King, No. 1 Franklin Terrace, Melrose, Mass.,
3 to 5 Yrs. Local Knowledge
- (6). Arnold G. Carey, 84 South Border Road, Medford, Mass.,
Civil Engineer
- (7). Charles F. Jhonson, 46 Upland Road, Stoneham, Mass.,
M.D.C. Police, Life in Local Knowledge
- (8). R. J. McKelleget, 29 Ware Street, Cambridge, Mass.,
Banker, 30 Yrs. Local Knowledge
- (9). Jhon M. Tierney, Fire Headquarters, Arlington, Mass.,
40 Yrs. Local Knowledge
- (10). Lester Cameron, Fire Headquarters, Arlington, Mass.,
35 Yrs. Local Knowledge
- (11). William H. Madden, Fire Headquarters, Arlington, Mass.,
40 Yrs. Local Knowledge
- (12). R. C. Cardinal, 11 Russel Road, Winchester, Mass., 32
Yrs. Local Knowledge
- (13). Harry Boomer, Winchester, Mass., 48 Yrs. Local Knowledge
- (14). Bill Nyland, 250 Woburn Street, West Medford, Mass., 24
Yrs. Local Knowledge
- (15). Jhon Glennon, 444 Fulton Street, Medford, Mass., 21 Yrs.
Local Knowledge
- (16). Roy Molyneaux, 26 Weber Street, Medford, Mass., 20 Yrs.
Local Knowledge
- (17). Walter Mason, 12 Cleveland, Malden, Mass., 20 Yrs. Local Knowledge
- (18). Forrest S. Balcomb, 90 Salem St., Malden, Mass., 30 Yrs. Local "
- (19). Richard T. Richer, 194 Washington St., Malden, Mass., 48 Yrs. Local
Knowledge
- (20). George H. Peirce, City Hall, Everett, Mass., 55 Yrs. Local Knowledge
- (21). Joseph F. Kelly, City Hall, Everett, Mass.

REVIEW OF AIR PHOTO COMPILATION NO. T-5770

Chief of Party: L.W. Swanson

Compiled by: J.E. Deal Jr.

Project: H.T. 227

Instructions dated: Aug. 15 and
Nov. 3, 1939.

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, c, d, e, g and ~~44~~; ~~45~~; and 64)
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. ~~76~~; and 66 g, n)
- ~~3.~~ Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d, e)
There are no ground surveys.
4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
*6 PRINTS FROM OTHER SOURCES ARE
FORWARDED WITH THIS MAP DRAWING.*
- ~~4.~~ Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
There are no contemporary surveys.
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; ~~44~~; and 66 c, h, i)
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and ~~44~~)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

- ~~8.~~ The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)
9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. ~~44~~, ~~40~~, and 57)
- ~~10.~~ A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, ~~e~~, and 60)
- NO LANDMARKS ARE RECOMMENDED FOR
CHARTING ON THIS MAP DRAWING*
11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and ~~66k~~)
13. The geographic datum of the compilation is N. A. 1927 and the reference station is correctly noted.
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
15. The drafting is satisfactory and particular attention has been given the following:
1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 2. The degrees and minutes of Latitude and Longitude are correctly marked.

- 3.✓ All station points are exactly marked by fine black dots.
- 4.✓ Closely spaced lines are drawn sharp and clear for printing.
- 5.✓ Topographic symbols for similar features are of uniform weight.
- 6.✓ All drawing has been retouched where partially rubbed off.
- 7.✓ Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, ~~37~~, ~~38~~, ~~39~~, 40, ~~41~~, 42, 43, ~~44~~, 45, 46, 48)

16.✓ No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;

L. W. Swanson Jan 21, 1942
Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examined and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography
and Topography.

GEOGRAPHIC NAMES

Survey No. T-5770

1	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
	<u>Revere</u>	✓			(two sizes of type)					1
	<u>Chelsea</u>	✓								2
	<u>Everett</u>	✓								3
	<u>Malden</u>	✓								4
	<u>Saugus</u>	✓			(two sizes of type)					5
	<u>Stoneham</u>	✓								6
	<u>Medford</u>	✓								7
	<u>Melrose</u>	✓								8
	<u>Winchester</u>	✓			(two sizes of type)					9
	<u>Somerville</u>	✓								10
	<u>Wellington</u>	✓								11
	<u>Franklin Park</u>	✓								12
	<u>Oakland Vale</u>									13
	<u>Pleasant Hills</u>	✓								14
	<u>Cliftondale</u>	✓								15
	<u>Linden</u>	✓								16
	<u>Glendale</u>	✓								17
	<u>Hendersonville</u>	✓								18
	<u>West Everett</u>	✓								19
	<u>Edgeworth</u>	✓								20
	<u>Faulkner</u>	✓								21
	<u>Maplewood</u>	✓								22
	<u>Melrose Highlands</u>									23
	<u>Winchester Highlands</u>									24
	<u>Medford Hillside</u>	✓								25
	<u>Tufts College</u>	✓								26
	<u>West Medford</u>	✓								27

GEOGRAPHIC NAMES

Survey No. T-5770

1-a Name on Survey

	A	B	C	D	E	F	G	H	K	
<i>OL</i> <u>Lynnhurst</u>										1
Rock Grove <u>Oak Grove</u>										2
<u>Wyoming</u>										3
<u>Broadway</u>										4
<u>West Somerville</u> <i>edges</i>										5
<u>Fells</u>										6
<u>Bell Rock</u>										7
<u>Everett Square</u>										8
<u>Little Creek</u>										9
<u>Spot Pond Brook</u>										10
<u>Intervale Brook</u> <i>not shown on plan</i>										11
<u>Gravel Creek</u>										12
<u>Melrose Rock</u>										13
<u>Black Rock</u>										14
<u>Deer Hill</u>										15
<u>Gerry Hill</u>										16
<u>Wannapanaquin Hill</u>										17
<u>Great Island</u>										18
<u>Bojum Rock</u>										19
<i>OL</i> <u>Doleful Pond</u>										20
<i>OL</i> <u>Judkins Pond</u>										21
<i>OL</i> <u>Abarjona Pond</u>										22
										23
										24
<u>Malden Square</u>										25
<u>Medford Square</u>										26
										27

GEOGRAPHIC NAMES

Survey No.

T-5770

GEOGRAPHIC NAMES											
Survey No.											
T-5770											
2 Name on Survey		A	B	C	D	E	F	G	H	K	
Chelsea River	✓					(recent USGS: not Creek)					1
Mystic River	✓										2
Saugus River	✓										3
Pines River	✓										4
Malden River	✓										5
Aberjona River	✓										6
											7
Sales Creek	✓										8
Mill Creek	✓										9
Diamond Creek	✓										10
Fiske Brook	✓										11
Shute Brook	✓										12
Penny Brook	✓										13
Linden Brook	✓					(on manuscript)					14
Alewife Brook	✓										15
											16
Boston & Maine R.R.	✓					(two lines)					17
U.S. No. 1	✓										18
State Nos. 16, 28, 38, 107, 01, 60	✓										19
Muller Airport	✓										20
Suffolk County,											21
Essex County											22
Middlesex County											23
											24
Vinegar Hill											25
Baker Hill	✓										26
Youngs Hill	✓										27

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GEOGRAPHIC NAMES

Survey No. T-5770

3	Name on Survey	A	B	C	D	E	F	G	H	K	
	<u>Mill Hill</u> ✓										1
	<u>Powder Horn Hill</u> ✓										2
	<u>Mt Washington</u> ✓										3
	<u>Fennos Hill</u> ✓										4
	<u>Watts Mt</u> ✓										5
	<u>Mt Hood</u> ✓										6
	<u>Candle Hill</u>										7
	<u>High Rock</u>										8
	<u>Whip Hill</u> ✓										9
	<u>Rowe Hill</u>										10
	<u>Bear Hill</u> ✓										11
	<u>Winthrop Hill</u> ✓										12
	<u>Pine Hill</u> ✓										13
											14
											15
	<u>Prankers Pond</u>										16
	<u>Scotts Pond</u>										17
	<u>Bennetts Pond Brook</u>										18
	<u>Stevens Pond</u> ✓ ✓										19
	<u>Long Pond</u> ✓ (2) ✓					(to eastward					20
	<u>Townners Pond</u> ✓ ✓										21
	<u>Swains Pond</u> ✓										22
	<u>Ell Pond</u> ✓ ✓										23
	<u>Felsmere Pond</u> ✓ ✓										24
	<u>Mystic Reservoir</u> ✓										25
	<u>Bellevue Pond</u> ✓ <i>not shown on Thoms</i>										26
	<u>Wrights Pond</u> ✓ ✓										27

GEOGRAPHIC NAMES

Survey No. T-5770

GEOGRAPHIC NAMES											
Survey No. T-5770											
Name on Survey		A	B	C	D	E	F	G	H	K	
2											
	Quarter Mile Pond ✓										1
	Spot Pond ✓										2
	South Reservoir ✓										3
	Middle Reservoir ✓										4
	North Reservoir ✓										5
	Falls Reservoir ✓				See bottom #5						6
	Dark Hollow Pond ✓										7
	Long Pond ✓✓					(to westward)					8
	Winchester Water Works ✓										9
											10
	Mystic River Reservation ✓										11
	Middlesex Falls Reservation ✓										12
	Zoological Park ✓										13
	Pine Banks Park ✓										14
	Mt Hood Memorial Park ✓										15
	Bellevue Golf Course ✓										16
	Mass. Soldiers Home ✓					(in part)					17
	New England Sanatorium ✓										18
	Melrose Hospital ✓										19
	Malden Hospital ✓										20
	Mt Hood Memorial Park Golf Course ✓					(south part Mt Hood Mem Park, see Texaco Road Map)					21
	Lawrence Memorial Hospital ✓										22
	Lawrence Observatory ✓										23
											24
											25
											26
											27
											28

GEOGRAPHIC NAMES

Survey No.

T-5770

GEOGRAPHIC NAMES											
Survey No. T-5770											
5 Name on Survey		A	B	C	D	E	F	G	H	K	
Riverside Cemetery ✓✓											1
Holy Cross Cemetery ✓✓											2
Beth Israel Cemetery ✓											3
Woodlawn Cemetery ✓✓											4
Glenwood Cemetery ✓✓											5
Bell Rock Cemetery ✓✓											6
St Marys Cemetery Wyoming Cemetery ✓✓											7
Wyoming Cemetery ✓✓											8
Forest Dale Cemetery ✓											9
Jewish Cemetery											10
Calvary Cemetery											11
											12
											13
											14
											15
											16
<u>Names approved if features show:</u>											17
Long Pond Brook											18
Ell Pond Brook											19
Mt Hood Ponds ✓											20
Leonard Ponds											21
Bear Hill Reservoir ✓											22
Little Spot Pond											23
Shiner Pond ✓											24
Hemlock Pool ✓											25
High Service Reservoir ✓											26
											27
											28

Names underlined in red approved
by L. Heck on 9/10/45

(partly covered over)

" " "

Same as Falls Reservoir?

(See P. 4, Line 6)

DIVISION OF PHOTOGRAMMETRY
Review Report of
Planimetric Map Manuscript T-5770

Subject headings not used in this report have been adequately covered in other parts of the descriptive report.

RADIAL PLOT:

The plot was tested during review and was found to meet the standard of accuracy for the project.

DETAILING:

A few corrections and additions to buildings, drainage, and roads were necessary. They were made from a stereoscopic study of the photographs, and from field inspection notes. Corrections and additions to the map manuscript were made in red.

GRAPHIC CONTROL AND HYDROGRAPHIC SURVEYS

There are none for this area.

PREVIOUS TOPOGRAPHIC SURVEYS:

T-2190 1/10000 1894 (see page 4, Descriptive Report)

T-5770 supersedes the older survey for all detail, except contours, in their common areas.

APPLICATION TO NAUTICAL CHARTS:

The map manuscript has been applied to nautical charts 246 and 248.

Reviewed by:

Dorothy Moseley per K. V. M.
Dorothy Moseley, 27 Sept., 1944

Under the direction of:
D. H. Benson

APPROVED BY:

B. J. Jones 10/48
Technical Assistant to the
Chief, Div. of Photogrammetry

E. J. Jones 29 Oct 48
Chief, Div. of Photogrammetry
Acting

H. H. H. H.
Chief, Nautical Chart Branch,
Division of Charts

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