

353
28

S E C R E T

TABLE OF CONTENTS

Proceedings of the Local Board, Harbor Defenses of Boston
List of Location Numbers, Method of Assignment and Location Map
List of References with Numbers
Recapitulation of Cost Estimates
Annex "A" - Seacoast Artillery
Annex "B" - Fire Control
Annex "C" - Seacoast Searchlights
Annex "D" - Underwater Defense
Annex "E" - Anti-aircraft Artillery
Annex "F" - Supporting Aircraft
Annex "G" - Gas Defense
Annex "H" - Summary of Land Procurement
Annex "I" - Information on Artillery and Fire Control
Installations
Annex "J" - Index and Summary by Location

DECLASSIFIED
DOD Dir. 5200.9, Sept. 27, 1958
NCWN by 8 date 10-28-71

S E C R E T

S E C R E T

Army Base, Boston, Mass.
July 31, 1941.

Proceedings of a local Board of Officers convened pursuant to letter, Headquarters 1st Corps Area (AG 660.2), February 12, 1941, subject: "Board of Officers", and letter, Headquarters 1st Corps Area (AG 660.2), June 30, 1941, subject: "Board of Officers", for the purpose of recommending the details of installation of defensive elements within the Harbor Defenses of Boston.

S E C R E T

S E C R E T

ORDERS APPOINTING THE BOARD

HEADQUARTERS FIRST CORPS AREA
Office of the Corps Area Commander

AG 660.2

Army Base, Boston, Mass.
February 12, 1941

SECRET

Auth: C. G., FCA
Initials: R. L. C.
Date: Feb. 12, 1941

Subject: Board of Officers.

1. The following boards of officers appointed by Secret letters, this headquarters, October 23, 1940, file number and subject as above, as amended by Secret letters, this headquarters, November 6, 1940, in compliance with paragraph 10, Secret Letter, War Department, AGO, September 25, 1940, AG 660.2 (9-11-40) M-WPD-M, subject "Modernization of Harbor Defense Projects, Continental United States," are dissolved:

Harbor Defenses of Portsmouth
Harbor Defenses of Portland
Harbor Defenses of Boston
Harbor Defenses of New Bedford, Narragansett
Bay and Long Island Sound

2. Under the provisions of paragraph 10, Secret letter, War Department, AGO, September 25, 1940, AG 660.2 (9-11-40) M-WPD-M, subject: "Modernization of Harbor Defense Projects, Continental United States," boards consisting of the following-named officers, are appointed to meet at the call of the presidents thereof:

Harbor Defenses of Portsmouth

Major General Thomas A. Terry, O-2355, U. S. Army, President
Colonel James H. Van Horn, O-1996, Signal Corps
Colonel Charles M. Steese, O-2796, Ordnance Department
Colonel Walter K. Dunn, O-2869, Coast Artillery Corps
Colonel Vernon L. Burge, O-5511, Air Corps
Colonel John A. Baird, O-3200, Chemical Warfare Service
Lieut. Colonel Leonard B. Gallagher, O-7646, Corps of Engineers
Major Horton W. Stickle, O-13595, Corps of Engineers
Lieut. Colonel James G. Devine, O-6540, Coast Artillery Corps,
Recorder

- 1 -

S E C R E T

III

S E C R E T

Harbor Defenses of Portland

Major General Thomas A. Terry, O-2355, U. S. Army, President.
Brig. General Robert C. Garrett, O-2539, U. S. Army.
Colonel James H. Van Horn, O-1996, Signal Corps.
Colonel Charles M. Steese, O-2796, Ordnance Department.
Colonel Vernon L. Burge, O-5511, Air Corps.
Colonel John A. Baird, O-3200, Chemical Warfare Service.
Lieut. Colonel Leonard B. Gallagher, O-7646, Corps of Engineers.
Major Horton W. Sticklo, O-13595, Corps of Engineers.
Lieut. Colonel James G. Devine, O-6540, Coast Artillery Corps, Recorder.

Harbor Defenses of Boston

Major General Thomas A. Terry, O-2355, U. S. Army, President.
Colonel James H. Van Horn, O-1996, Signal Corps.
Colonel Monte J. Hickok, O-2625, Coast Artillery Corps.
Colonel Charles M. Steese, O-2796, Ordnance Department.
Colonel Vernon L. Burge, O-5511, Air Corps.
Colonel John A. Baird, O-3200, Chemical Warfare Service.
Lieut. Colonel Leonard B. Gallagher, O-7646, Corps of Engineers.
Major Horton W. Sticklo, O-13595, Corps of Engineers.
Lieut. Colonel James G. Devine, O-6540, Coast Artillery Corps, Recorder.

Harbor Defenses of New Bedford, Narragansett Bay and Long Island Sound

Major General Thomas A. Terry, O-2355, U. S. Army, President.
Colonel James H. Van Horn, O-1996, Signal Corps.
Colonel Thomas H. Jones, O-2892, Coast Artillery Corps (For L.I.S.,
only)
Colonel Vernon L. Burge, O-5511, Air Corps.
Colonel John A. Baird, O-3200, Chemical Warfare Service.
Colonel Randolph T. Pondloton, O-3217, Coast Artillery Corps (For Narr.
Bay, only)
Lieut. Colonel John S. Bragdon, O-3770, Corps of Engineers.
Lieut. Colonel Charles J. Herzer, O-4545, Coast Artillery Corps
(For New Bedford, only)
Lieut. Colonel Leo S. Dillon, O-7649, Corps of Engineers (For H.D. of
L.I.S. Montauk Pt., only)
Major Horton W. Sticklo, O-13595, Corps of Engineers.
Lieut. Colonel James G. Devine, O-6540, Coast Artillery Corps, Recorder

By command of Major General WOODRUFF:

ROBERT L. COLLINS,
Colonel, A. G. D.,
Adjutant General.

Distribution:

1 ea. off.	1 Ch. of Engineers	1 CG HD of Portland
1 Ch. Sig. Off.	1 AG File, HFCA	1 CO HD of Boston
1 Ch. of Ord.	2 T.A.G.	1 CO HD of New Bedford
1 Ch. of C.A.	10 CG 1st CAD	1 CO HD of Narr. Bay
1 Ch. of A. C.	1 CO HD of Portsmouth	1 CO HD of L.I.S.
1 Ch. of C.W.S.		

S E C R E T

HEADQUARTERS FIRST CORPS AREA
Office of the Corps Area Commander

AG 660.2

Army Base, Boston, Mass.,
June 30, 1941.

SECRET

Auth: C. G., FCA

Initials: R.L.C.

Date: June 30, 1941

Subject: Board of Officers.

1. The following boards of officers appointed by Secret letter, this headquarters, February 12, 1941, file number and subject as above, in compliance with paragraph 10, Secret letter, War Department, AGO, September 25, 1940, AG 660.2 (9-11-40) M-WPD-M, subject: "Modernization of Harbor Defense Projects, Continental United States," are dissolved:

Harbor Defenses of Portsmouth
Harbor Defenses of Portland
Harbor Defenses of Boston
Harbor Defenses of New Bedford,
Narragansett Bay and Long Island
Sound

2. Under the provisions of paragraph 10, Secret letter, War Department, AGO, September 25, 1940, AG 660.2 (9-11-40) M-WPD-M, subject: "Modernization of Harbor Defense Projects, Continental United States," boards consisting of the following-named officers are appointed to meet at the call of the presidents thereof:

Harbor Defenses of Portsmouth.

Major General Thomas A. Terry, O-2355, U. S. Army, President.
Colonel James H. Van Horn, O-1996, Signal Corps.
Colonel Walter K. Dunn, O-2869, Coast Artillery Corps.
Colonel Charles H. Traeger, O-2942, Ordnance Department.
Colonel Vernon L. Burge, O-5511, Air Corps.
Lieut. Colonel Leonard B. Gallagher, O-7646, Corps of Engineers.
Major Horton W. Stickle, O-13595, Corps of Engineers.
Major Walter A. Guild, O-206210, Chemical Warfare Service.
Lieut. Colonel James G. Devine, O-6540, Coast Artillery Corps, Recorder

Harbor Defenses of Portland

Major General Thomas A. Terry, O-2355, U. S. Army, President.
Brig. General Robert C. Garrett, O-2539, U. S. Army.
Colonel James H. Van Horn, O-1996, Signal Corps.
Colonel Charles H. Traeger, O-2942, Ordnance Department.
Colonel Vernon L. Burge, O-5511, Air Corps.
Lieut. Colonel Leonard B. Gallagher, O-7646, Corps of Engineers.
Major Horton W. Stickle, O-13595, Corps of Engineers.
Major Walter A. Guild, O-206210, Chemical Warfare Service.
Lieut. Colonel James G. Devine, O-6540, Coast Artillery Corps, Recorder

- 3 -

S E C R E T

V

S E C R E T

Harbor Defenses of Boston

Major General Thomas A. Terry, O-2355, U. S. Army, President.
Brig. General Kenneth T. Blood, O-3219, U. S. Army.
Colonel James H. Van Horn, O-1996, Signal Corps.
Colonel Charles H. Traeger, O-2942, Ordnance Department.
Colonel Vernon L. Burge, O-5511, Air Corps.
Lieut. Colonel Leonard B. Gallagher, O-7646, Corps of Engineers.
Major Horton W. Stickle, O-13595, Corps of Engineers.
Major Walter A. Guild, O-206210, Chemical Warfare Service.
Lieut. Colonel James G. Devine, O-6540, Coast Artillery Corps, Recorder

Harbor Defenses of New Bedford, Narragansett Bay and Long Island Sound

Major General Thomas A. Terry, O-2355, U. S. Army, President.
Brig. General Ralph E. Haines, O-2891, U. S. Army, (For Narr. Bay, only)
Colonel James H. Van Horn, O-1996, Signal Corps.
Colonel Thomas H. Jones, O-2892, Coast Artillery Corps, (For L.I.S., only)

Colonel Charles H. Traeger, O-2942, Ordnance Department.
Colonel Vernon L. Burge, O-5511, Air Corps.
Lieut. Colonel Charles J. Herzer, O-4545, Coast Artillery Corps (For New Bedford, only)

Lieut. Colonel Harley Latson, O-6917, Corps of Engineers.
Lieut. Colonel Lee S. Dillon, O-7649, Corps of Engineers (For H.D. of L.I.S. Montauk Pt. only)

Major Horton W. Stickle, O-13595, Corps of Engineers.
Major Walter A. Guild, O-206210, Chemical Warfare Service.
Lieut. Colonel James G. Devine, O-6540, Coast Artillery Corps, Recorder

By command of Brigadier General WILBY:

ROBERT L. COLLINS,
Colonel, A.G.D.,
Adjutant General.

Distribution:

1	ea. off.	1	Ch. of Engineers	1	CG	HD of Portland
1	Ch. Sig. Off.	1	AG file, HFCA	1	CG	HD of Boston
1	Ch. of Ord.	2	T.A.G.	1	CO	HD of New Bedford
1	Ch. of C. A.	10	CG 1st C.A.D.	1	CG	HD of Narr. Bay
1	Ch. of A. C.	1	CO HD of Portsmouth	1	CO	HD of L.I.S.
1	Ch. of C.W.S.					

S E C R E T

S E C R E T

1. Pursuant to instructions contained in the foregoing letter orders, the board met February 15, 1941, and thereafter until July 31, 1941. All members or their authorized representatives were present at all meetings.

2. The board studied the existing Approved Basic Project, the Annexes to the Harbor Defenses Project, Harbor Defenses of Boston, current official manuals pertaining to Harbor Defense installations, and the correspondence listed in these proceedings.

3. The President of the board, Major General T. A. Terry, announced that the following listed Coast Artillery Officers had been detailed to work with the board to assist in preparing and presenting the details incident to the report of the board:

Lieut. Col. Russell T. George	CAC	H.D. Narragansett Bay
Lieut. Col. Harry W. Lins	CAC	H.D. Portland
Lieut. Col. Victor G. Schmidt	CAC	H.D. Long Island Sound
Lieut. Col. Edward G. Cowen	CAC	H.D. Portsmouth
Major Ben E. Cordell	CAC	H.D. Boston
1st Lt. Richard L. Norton	CAC	H.D. New Bedford

4. Each of the above officers presented the recommendations of his Harbor Defense Commander and represented him in the detailed studies of the board.

5. Two groups were organized. One group, consisting of three officers and a representative of the District Engineer, Boston, prepared the detailed studies and estimates for the Harbor Defenses of Boston, Portsmouth and Portland. A second group of three officers and a representative of the District Engineer, Providence, prepared the detailed studies and estimates for the Harbor Defenses of New Bedford, Narragansett Bay and Long Island Sound.

S E C R E T

6. The Commanding General, First Coast Artillery District, supervised and coordinated the work of these groups.

7. After consideration of all the factors involved, the board unanimously agrees in recommending that the defensive elements stated herein be accepted as a basis for the Modernization of the Harbor Defenses of Boston and that they be included in the next revision of the Annexes to the Harbor Defense Project.

8. The board recommends that these proceedings be considered to be a revision of the Annexes to the Harbor Defense Project and that they serve this purpose until further revision is deemed necessary.

Th. A. Terry
THOMAS A. TERRY,
Major General, U. S. Army,
President

Kenneth T. Blood
KENNETH T. BLOOD,
Brigadier General, U. S. Army,
Member

J. H. Van Horn
JAMES H. VAN HORN,
Colonel, Signal Corps,
Member

Charles H. Traeger
CHARLES H. TRAEGER,
Colonel, Ordnance Department,
Member

Vernon L. Burge
VERNON L. BURGE,
Colonel, Air Corps,
Member

Leonard B. Gallagher
LEONARD B. GALLAGHER,
Lt. Colonel, Corps of Engineers,
Member

Horton W. Stickle
HORTON W. STICKLE,
Major, Corps of Engineers,
Member

Walter A. Guild
WALTER A. GUILD,
Major, Chemical Warfare Service,
Member

James G. Devine
JAMES G. DEVINE,
Lt. Colonel, Coast Artillery Corps,
Recorder

S E C R E T

LOCATION NUMBERS, FIRST COAST ARTILLERY DISTRICT

1. In order that all existing and proposed installations in the First Coast Artillery District may be identified readily and referred to briefly, each locality selected has been given a "Location Number". The series starts at the most southern point and continues from South to North, West to East, and right to left.
2. All location numbers between 1 and 100 are in the Providence or the New York Engineer Districts (Harbor Defenses of Long Island Sound, Narragansett Bay and New Bedford). All numbers above 100 are in the Boston Engineer District (Harbor Defenses of Boston, Portsmouth and Portland).
3. Numbers 1 to 9 in the Providence-New York Districts and 100 to 109 in the Boston District are reserved for future use.
4. Each separate area selected for an installation at a location has been assigned a Site number in accordance with the same rules as for location number assignments.
5. Each installation within a site has been designated by a letter assigned by the above rules. Thus, the exact position of B₁₈S₁₆², Battery Whipple, located at Strawberry Point, H. D. of Boston, is designated as Location 115, Site 1-D.

List of Location Numbers in H. D. of Boston, Portsmouth, and Portland, incl.

<u>Number</u>	<u>Location</u>	<u>Latitude</u>	<u>Longitude</u>
101 to 108	Reserved for Future Use		
109	Sagamore Beach	41° 47'	70° 31'
110	Manomet Point	41° 56'	70° 32'
111	Gurnet	42° 12'	70° 36'
112	Brant Rock	42° 05'	70° 39'
113	Flowers Hill	42° 09'	70° 43'
114	Fourth Cliff	42° 10'	70° 42'
115	Strawberry Point	42° 15'	70° 46'
116	Strawberry Hill	42° 18'	70° 53'
117	Fort Andrews	42° 18'	70° 56'
118	Fort Duvall	42° 18'	70° 54'
119	Fort Revere	42° 18'	70° 55'
120	Point Allerton	42° 19'	70° 53'
121	Fort Warren	42° 19'	70° 56'
122	Fort Strong	42° 20'	70° 57'
123	Fort Standish	42° 20'	70° 56'
124	Great Brewster	42° 20'	70° 54'
125	Calf Island	42° 20'	70° 54'
126	Outer Brewster	42° 21'	70° 53'
127	Fort Dawes (Deer Island)	42° 21'	70° 57'
128	Fort Banks	42° 23'	70° 59'
129	Fort Heath	42° 23'	70° 58'
130	Fort Ruckman	42° 25'	70° 56'
131	East Point	42° 25'	70° 54'
132	Marblehead Neck	42° 30'	70° 50'
133	Marblehead Light	42° 30'	70° 50'
133A	Gales Point	42° 34'	70° 47'
134	Coolidge Point	42° 34'	70° 43'
134A	Eastern Point	42° 35'	70° 45'
135	Emerson Point	42° 38'	70° 36'
136	Halibut Point	42° 42'	70° 38'
137	Castle Hill	42° 41'	70° 47'
137A	Plum Island	42° 46'	70° 48'
137B	Salisbury Beach	42° 51'	70° 49'
138	Great Boars Head	42° 55'	70° 48'
139	Rye Ledge	42° 59'	70° 46'
140	Star Island	42° 59'	70° 37'
141	Appledore Island	42° 59'	70° 37'
142	Pulpit Rock	43° 02'	70° 43'
143	Odiornes Point	43° 03'	70° 43'

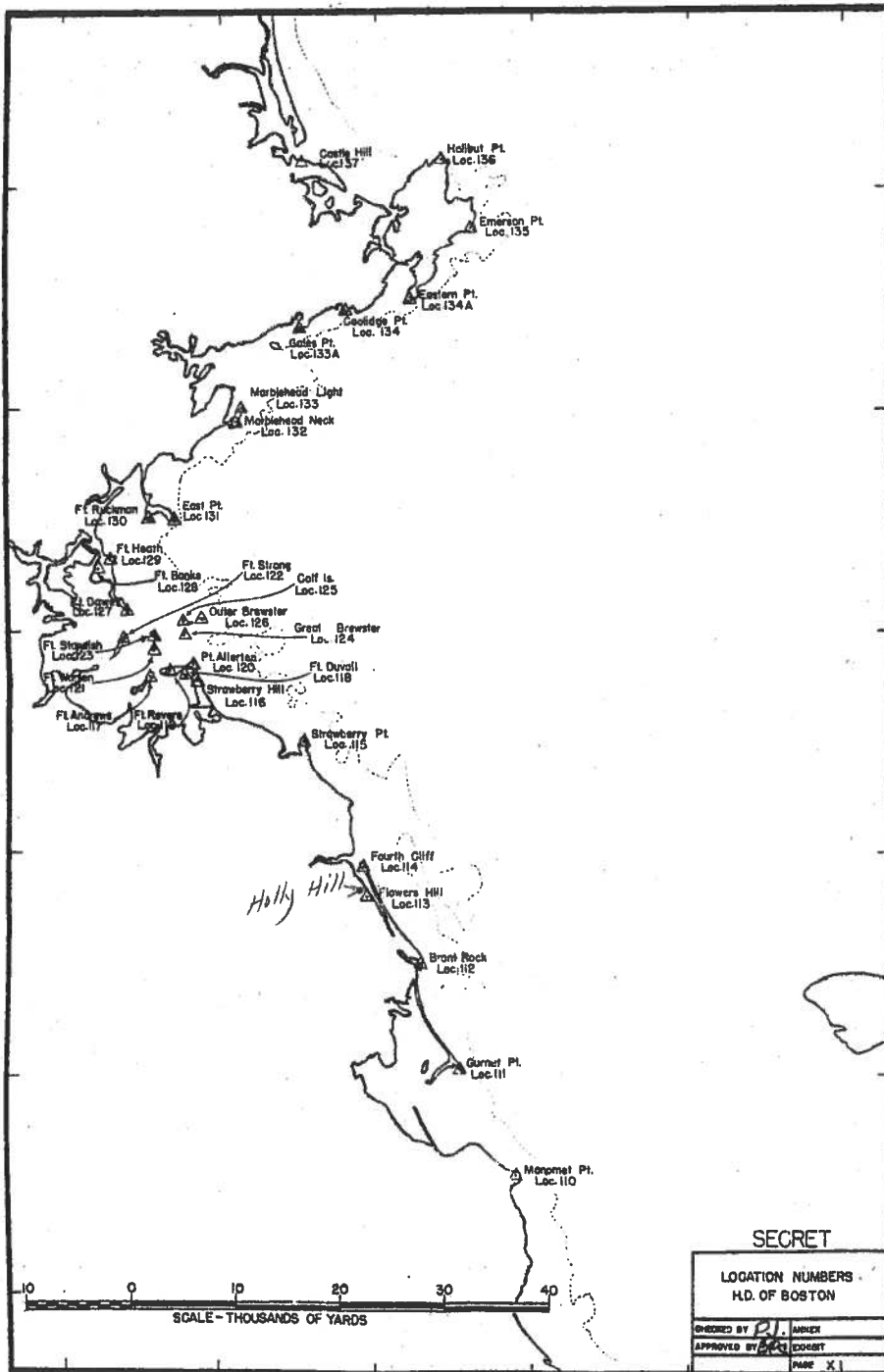
S E C R E T

S E C R E T

List of Location Numbers, Boston Engineer District, Manomet to Fort Baldwin, Inclusive, (Cont'd.).

Numbers	Location	Latitude	Longitude
144	Frost Point	43° 03'	70° 43'
145	Fort Stark (Jaffrey Pt)	43° 03'	70° 43'
146	Camp Langdon	43° 04'	70° 43'
147	Fort Constitution (Ft. Point)	43° 04'	70° 43'
148	Fort Foster (Gerrish Island)	43° 04'	70° 42'
149	Sisters Point (Gerrish Island)	43° 04'	70° 40'
150	Western Point	43° 08'	70° 38'
151	Cape Weddick	43° 10'	70° 36'
152	Bald Head Cliff	43° 13'	70° 35'
153	Moody Beach	43° 17'	70° 34'
154	Gelaspus Point (Kennebunk Beach)	43° 21'	70° 31'
155	Cape Porpoise	43° 22'	70° 26'
156	Fletchers Neck	43° 26'	70° 20'
157	Prouts Neck	43° 32'	70° 19'
158	Cape Elizabeth	43° 34'	70° 12'
159	Trundy Point	43° 35'	70° 13'
160	Fort Williams	43° 37'	70° 13'
160A	Fort Scammel (Houso Island)	43° 39'	70° 13'
161	Fort Levett	43° 39'	70° 12'
162	Fort Preble	43° 39'	70° 14'
163	Peak Island	43° 40'	70° 11'
164	Fort McKinley	43° 41'	70° 12'
165	Fort Lyon	43° 42'	70° 11'
166	Long Island	43° 41'	70° 10'
167	Jewell Island	43° 41'	70° 16'
168	Bailey Island	43° 43'	70° 00'
169	Small Point	43° 42'	69° 50'
170	Fort Baldwin	43° 45'	69° 47'

S E C R E T



SECRET

LIST OF REFERENCES

SHORT
REF.

- No. 1 Letter Adjutant General's Office, September 25, 1940. Subject: Modernization of Harbor Defense Projects (Continental United States), AG 660.2 (9-11-40) M-WPD-M, To Commanding General First Corps Area, with 11 inclosures.
- No. 2 Letter Adjutant General's Office, January 18, 1940. Subject: Revision of Annexes to Harbor Defense Projects, AG 660.2 (1-15-41) M, To Commanding General, First Corps Area, with 3 inclosures.
- No. 3 Letter Office of the Chief of Coast Artillery, February 20, 1941. Subject: Local Board Activities, Harbor Defense Modernization Program (Continental United States), OCCA 662.1/AK, To Commanding General, First Coast Artillery District, with 1 inclosure.
- No. 4 Pamphlet:- A Guide for Preparation of Local Board Proceedings, Par. 1 d, AR 100-20. Office Chief of Coast Artillery, dated February 20, 1941.
- No. 5 Pamphlet:- Notes on Type Harbor Defenses Installations, Office Chief of Coast Artillery.
- No. 6 Letter Adjutant General's Office, November 1, 1940. Subject: Revision of Anti-Aircraft Annex, Harbor Defense Projects, AG 660.2 AA (10-23-40) M-OCCA, To Commanding General, First Corps Area.
- No. 7 Letter Office Chief of Coast Artillery, January 29, 1941. Subject: Plans for Storage of Seacoast Artillery Ammunition (Continental United States) with 2 inclosures, approved by 3rd indorsement, AG 471.88 (1-29-41) M-WPD.
- No. 8 Pamphlet:- Notes on Characteristics and Employment of Depression Position Finders, Office Chief of Coast Artillery, published September 6, 1940.
- No. 9 Pamphlet:- Instructions and outline for preparation of Annexes to Harbor Defense Projects in the Continental United States, Office Chief of Coast Artillery, dated November 12, 1940.
- No. 10 Modernization of Harbor Defense Projects, Site Board Proceedings for the Harbor Defenses of Boston, with 9 indorsements. Approved by Secretary of War, May 31, 1941. File AG 660.2 (1-23-41) MG-WPD
- No. 11 Annexes to Harbor Defense Project, Harbor Defenses of Boston, (CCA-AN-B) 1938.
- No. 12 Harbor Defense Project, Portland-Cape Cod area (CCA-P-PCC).
- No. 13 Augmented Expenditure Program, 1941, for Harbor Defenses of Boston.
- No. 14 Report Local Joint Planning Committee, N.E. Sector 37 mm anti-torpedo boat defense A-16 - 1/ND 1 (762) (AAD WPO) dated March 25, 1941.

SECRET

S E C R E T

Harbor Defenses of Boston

RECAPITULATION OF COST ESTIMATES

Annex:		Cost					:
Exhibit	Engineer	Land	Signal	Ordnance	CWS	Total	
A 10-A- 3	\$7,225,840	\$451,900	-	\$3,320,000	-	\$10,997,740	
B 1-B-10	-	-	\$658,948	-	-	658,948	
B 8-B-22	478,380	202,200	-	-	-	680,580	
B 9-B-34	-	-	97,901	901,666	-	999,567	
C 4-C- 4	336,000	-	-	-	-	336,000	
D 2-D- 1	42,500	-	-	-	-	42,500	
E 5-E- 1	4,300	-	-	-	-	4,300	
F -	-	-	-	-	-	-	
G 1-G- 8	44,640	-	-	-	\$80,840	125,480	
H -	-	-	-	-	-	-	
I -	-	-	-	-	-	-	
J -	-	-	-	-	-	-	
Totals	\$8,131,660	\$654,100	\$756,849	\$4,221,666	\$80,840	\$13,845,115	

Note.-- The above estimates do not include funds already approved in the Augmented Expenditure Program, 1941, Harbor Defenses of Boston.

S E C R E T

ANNEX A

SEACOAST ARTILLERY

S E C R E T

ANNEX "A"

HARBOR DEFENSES OF BOSTON

1. In the following tabulations of Annex "A" are listed the fixed seacoast batteries now existing or authorized for the Harbor Defenses of Boston, together with their proposed positions.
2. In addition to these batteries the Board recommends that 155 MM Mobile gun batteries be authorized to protect the vital areas not defended by fixed guns, as follows:-

LOCATION	PLACE	NO. OF GUNS	CALIBER
109	Sagamore Beach	4	155 MM
137B	Salisbury Beach	4	155 MM

3. This annex includes 37 MM Anti-motor Torpedo Boat Defense as authorized by the Local Joint Planning Committee, New England Sector (Reference No. 14).

S E C R E T

S E C R E T

H. D. OF BOSTON

EXHIBITS - ANNEX A

EXHIBITS

CONTENTS

1-A	List of Batteries upon completion of Modernization Program (Form #1)
2-A	Project Batteries (Permanent) (Form #2)
3-A	Batteries "Under Construction" or "To be Constructed" (Form #3)
4-A	Project Batteries (outmoded) (Form #4)
5-A	Batteries No Longer Required (Form #5)
5a-A	37mm Gun Anti-Motor Torpedo Boat Defense
6-A	Tactical Organization Pending Completion of Modernization Program (Form #6)
7-A	Tactical Organization Recommended for Adoption upon Completion of Modernization Program (Form #7)
8-A	Ammunition Allowances (Form #8)
9-A	Additional Bombproof Magazines Required (Form #9)
10-A	Cost Estimate and Priority Guide - Fortification Construction (Form #10)

S E C R E T

H. D. of Boston

Exhibit 1-A , Page 1 of 1 Page

H. D. of BOSTON

PROJECT BATTERIES (Permanent)

The following tabulation lists the existing and authorized seacoast batteries which will remain in the project upon completion of the modernization program, pursuant to authority contained in letter, subject: "Modernization of Harbor Defense Projects, Continental United States", 9-25-40, AG file No. 660.2 (9-11-40)M-WPD-M: OCCA File No. 662.1/33-J-3.

[illegible]

NOTES: (a) General location map.
(b) EX - Existing
TCS - To be shielded
TCC - To be casemated

S E C R E T

Form #3. Annex A.

H. D. of Boston

BATTERIES "UNDER CONSTRUCTION" or "TO BE CONSTRUCTED"

Sites for the following batteries (those under construction and those to be constructed) have been approved by the Secretary of War.

Prio- rity	Battery :Tact.:Loc.: : No. : No.:	Construction Number:	Casemate : or Shield	Exhibit	Acreage	Estimated Cost of Land
3	1 113	Construction #106 <i>Eliminated</i> (To be constructed-Approved)	Casemate	1-I- 4	76.5	\$ 55,500.
2	2 114	Construction #208 (To be constructed-Approved)	Shield	1-I- 5	45.0	206,000.
2	11 126	Construction #209 (To be constructed-Approved)	Shield	1-I-15	-	Mil. Res.
3	12 127	Construction #105 (To be constructed-Approved)	Casemate	1-I-16	-	Mil. Res.
2	13 127	Construction #207 (To be constructed-Approved)	Shield	1-I-16	-	Mil. Res.
2	15 131	Construction #206 (To be constructed-Approved)	Shield	1-I-20	Incl. in same site as #104	
3	16 131	Construction #104 (To be constructed-Approved)	Casemate	1-I-20	31.0	91,000.

Letter 662.1/33-K-5; Subject: "Site Board Proceedings, Harbor Defenses of Boston, First Corps Area"; 7th Ind. WD, OCCA, dated April 26, 1941. Reference No. 10.

S E C R E T

Exhibit 3-A, Page 1 of 1 Page

S E C R E T

Form #4. Annex A.

H. D. of BOSTON

PROJECT BATTERIES (Outmoded)

The following tabulation lists the existing seacoast batteries which have been classed as outmoded under the modernization program. Current plans contemplate their exclusion from the project upon completion of all new batteries.

Battery			: Cali-:No. of :	Type			:
Tacti- :Loc.:	Name		: ber :	Guns	: Guns	: Carriages:	Place
cal No.:	No.:		: In :		:	:	::
17	:117	Cushing - Whitman (One Battery)	:12"M :	4 6	:1890M1 : 1908	M M	: Ft.Andrews Ft.Andrews
18	:119	Sanders	: 6" :	3	:1903 :	DC	: Ft.Revere
19	119	Ripley	12"	2	1888M1	BC	Ft.Revere
20	120	Stevenson	12"	2	1895	DC	Ft.Warren
21	:124	Terrill	: 6" :	3	:1897 :	DC	: Ft.Standish
22	126	Kellogg	12"M	6	1890M1	M	Ft.Banks
23	128	Lincoln	12"M	6	1890M1	M	Ft.Banks
24	:129	Winthrop	:12"M :	3	:1888M1 :	DC	: Ft.Heath
25	131	(Mobile)	155mm	4	1918	Mobile	Ft.Ruckman
	:	:	:	:	:	:	:
		<u>NOTE:</u> Reference No. 1					
	:	:	:	:	:	:	:
	:	:	:	:	:	:	:
	:	:	:	:	:	:	:
	:	:	:	:	:	:	:
	:	:	:	:	:	:	:
	:	:	:	:	:	:	:
	:	:	:	:	:	:	:
	:	:	:	:	:	:	:

S E C R E T

Exhibit 4-A, Page 1 of 1 Page.

S E C R E T

Form 5a. Annex A.

H. D. of Boston

AUTOMATIC WEAPONS
ANTI-MOTOR-TORPEDO BOAT DEFENSE

The authorized automatic weapon defense is disposed as shown in the following tabulation, together with authorized allowances of ammunition.

Cali- ber	No. of Guns	Loc. No.	Place	Battle All. Amm.	Ammunition		
					Place of Storage	On Hand	Re- quired
37m	4	127	South Point Deer Island	14400	Local	0	14400
37m	4	122	North Point Long Island	14400	Local	0	14400
37m	4	117	North Point Peddocks Island	14400	Local	0	14400
Total	12			43200		0	43200

Notes:

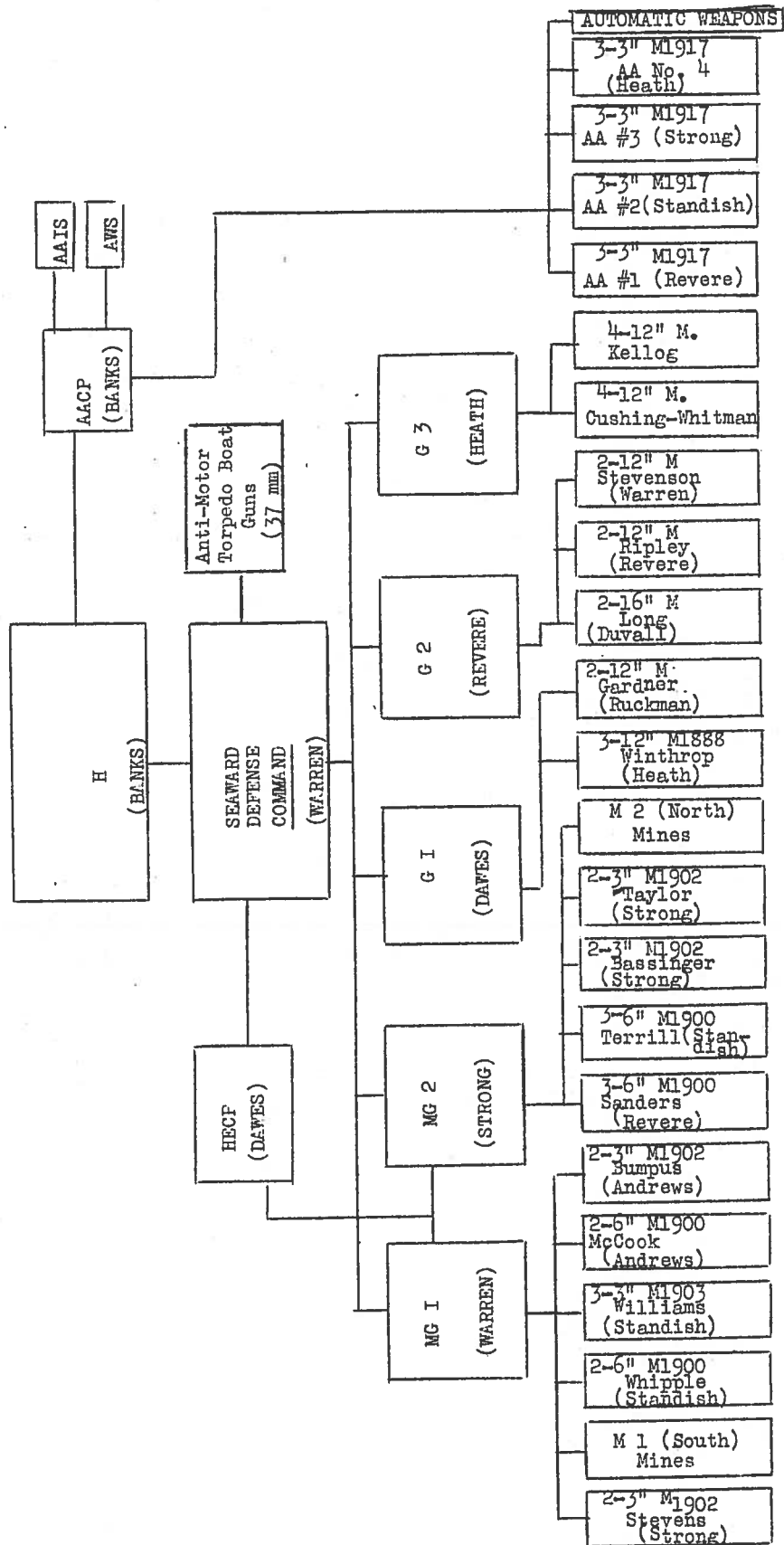
Authority: Proceedings of the Local Joint Planning Committee, New England Sector, file A16-/ND, 1(762) (AADWPO), dated Mar. 25, 1941. Approval of WD not yet received. (Reference No. 14.)

Costs: Cost price of the above listed weapons and ammunition not available, therefore no costs are included in this estimate.

Ammunition: To be stored in available magazines of outmoded batteries or batteries no longer required. An initial supply will be placed at each tactical position when occupied.

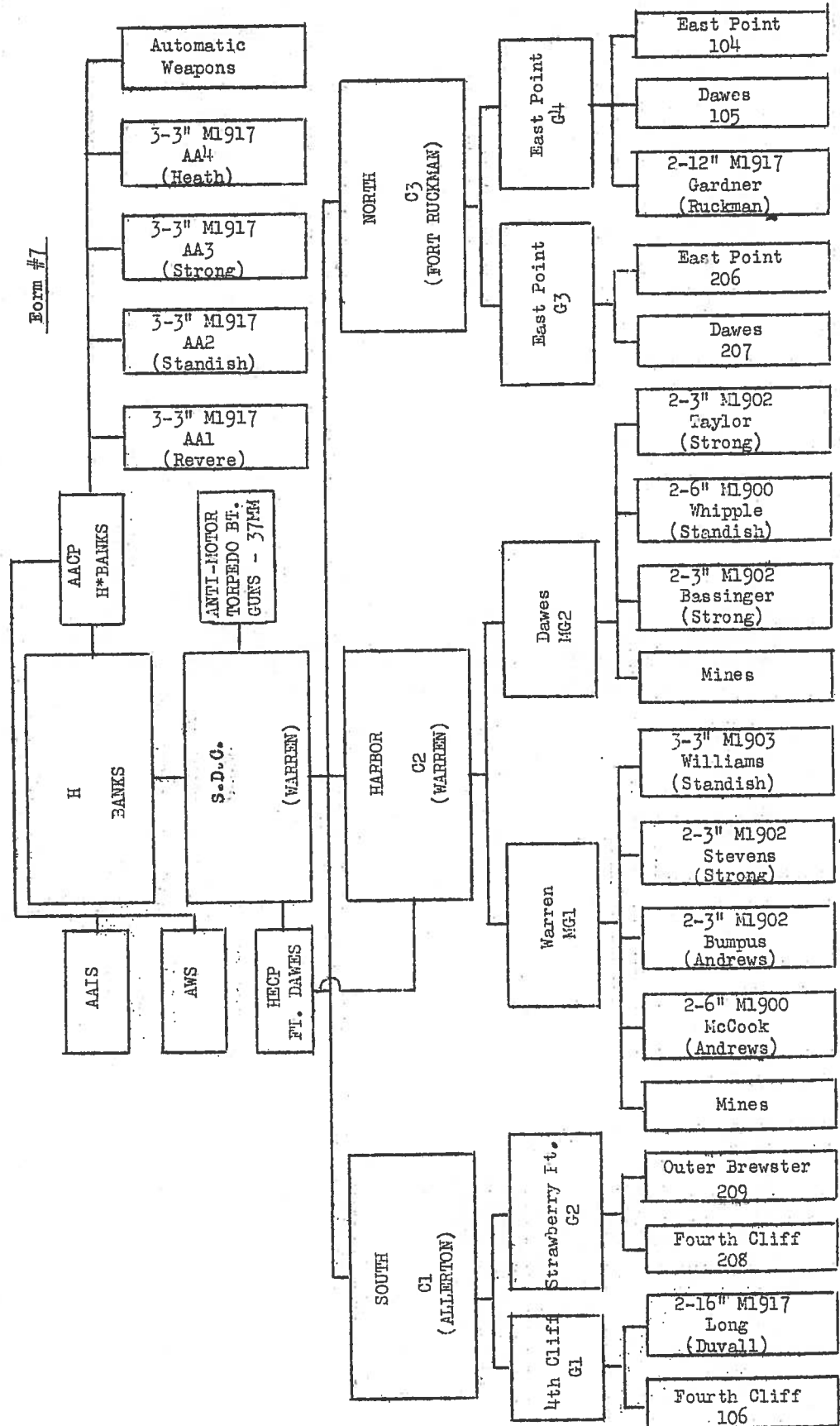
S E C R E T

Exhibit 5a-A, Page 1 of 1 Page.



TACTICAL ORGANIZATION PENDING COMPLETION OF THE
MODERNIZATION PROGRAM.

Form #7



Tactical organization of HDB recommended for adoption upon completion of the modernization program.

SECRET

S E C R E T

Form #8, Annex A

H. D. of Boston

AMMUNITION ALLOWANCES

The following tabulation shows the War Reserve Allowance of Ammunition for all authorized seacoast batteries, including those to be abandoned on completion of the modernization program, together with the Battle Allowances of Ammunition approved for existing batteries and those recommended for new batteries.

QUANTITIES ARE STATED ON THE PER BATTERY BASIS

Tact:	Loc.:	Construction:	Name or No.:	No.:	Caliber:	Type	:Rounds per Btry:	Additional
No.:	No.:	Number	:Guns:	Type	:tile	:Reserve:	All. *:	Proposed

BATTERIES UPON COMPLETION OF MODERNIZATION PROGRAM

1	113	Const. #106	2	16"	BC	AP	400	200	<u>200</u>
2	114	Const. #208	2	6"	BC	HE AP	400 1200	400 800	0 <u>400</u>
3	117	Bumpus	2	3"	BC	HE	720	540	180
4	117	McCook	2	6"	BC	HE AP	360 1080	160 480	200 600
5	118	Long	2	16"	BC	AP	360	180	<u>180</u>
6	122	Stevens	2	3"	BC	HE	360	270	90
7	122	Basinger	2	3"	BC	HE	720	540	<u>180</u>
8	122	Taylor	2	3"	BC	HE	360	270	90
9	123	Williams	3	3"	BC	HE	1080	800	280
10	123	Whipple	2	6"	BC	HE AP	360 1080	210 640	150 <u>440</u>
11	126	Const. #209	2	6"	BC	HE AP	400 1200	400 800	0 <u>400</u>
12	127	Const. #105	2	16"	BC	AP	400	200	<u>200</u>
13	127	Const. #207	2	6"	BC	HE AP	400 1200	400 800	0 <u>400</u>
14	130	Gardner	2	12"	BC	AP	540	400	<u>140</u>
15	131	Const. #206	2	6"	BC	HE AP	400 1200	400 800	0 <u>400</u>
16	131	Const. #104	2	16"	BC	AP	400	200	<u>200</u>

Note: * Stored in battery magazines.

____ New magazines will be required for quantities underscored.

S E C R E T

Exhibit 8-A, page 1 of 2

S E C R E T

Form #8. Annex A.

H. D. of Boston

AMMUNITION ALLOWANCES

The following tabulation shows the War Reserve Allowance of Ammunition for all authorized seacoast batteries, including those to be abandoned on completion of the modernization program, together with the Battle Allowances of Ammunition approved for existing batteries and those recommended for new batteries.

QUANTITIES ARE STATED ON THE PER BATTERY BASIS

Tact. No.	Loc. No.	Name or Construction Number	No. of Guns	Caliber and Type	Type of Projectiles	Rounds per War Reserve	Battle Allowance	Additional Storage Proposed
-----------	----------	-----------------------------	-------------	------------------	---------------------	------------------------	------------------	-----------------------------

PROJECT BATTERIES OUTMODED

17	117	Cushing Whitman	10	12"-M	1046# AP	200	200	0
					700# AP	500	500	0
23	128	Lincoln	6	12"-M	1046# AP	150	150	0
					700#	300	300	0
22	128	Kellog	6	12"-M	1046#	150	150	0
					700#	300	300	0
24	129	Winthrop	3	12" DC	AP	540	330	210**
19	119	Ripley	2	12" BC	AP	180	180	0
20	120	Stevenson	2	12" DC	AP	360	360	0
29	124	Morris	2	10" DC	AP	162	132	30**
26	121	Bartlett	2	10" DC	AP	162	162	0
25	131	Mobile 155	4	Mobile	HE	1440	1000	440**
18	119	Sanders	3	6" DC	HE AP	540 1620	285 855	255** 765**
21	124	Terrill	3	6" DC	HE AP	540 1620	196 589	344** 1031**

NOTE: *Stored in battery magazines.

**Storage space available in existing magazines.

S E C R E T

Exhibit 8-A, Page 2 of 2 Pages

S E C R E T

Form #9. Annex A

H. D. of BOSTON

ADDITIONAL BOMB-PROOF MAGAZINES

REQUIRED

Pri- ority No.	Item No.	Description of Project	Place and Location No.	Site No.	Ammunition Storage for Battery	Refer to Forms
3		Bomb-proof Magazine	Flower Hill 113	1C	Battery 106 & Battery 208	8-A-1 1-I-4
3		Bomb-proof Magazine	Fort Dawes 127	1L	Battery 105 Battery 207 & Battery 209	8-A-1 1-I-16
2		Bomb-proof Magazine	Fort Ruck- man 130	3A	Battery Gard- ner Battery 104 & Battery 206	8-A-1 1-I-19

S E C R E T

Exhibit 9-A, Page 1 of 1 page

S E C R E T

Form #10. Annex A.

H. D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION

Prio-:Item:	:	:	:	:	:
ity : No.:	Description of Project	Ordnance:	Engineer:	Land	Total
3	<u>FLOWERS HILL, LOCATION NO. 113</u>				
	Btry. #1				
	Constr. #106	\$870,000	\$1,500,000	\$55,500	\$2,425,500
	2-16" BC Casemated				
3	1 Bombproof magazine			Included	
	50' x 30' x 10'	None	60,000	in tract	60,000
	for 200-16" and			for Btry.	
	400-6" A.P.			#106	
	Contingency		12,000		12,000
3	2 Bombproof powder			Included	
	magazines	None	180,000	in tract	180,000
	200-16" and 400-6"			for Btry.	
	90' x 30' x 8'			#106	
	Contingency		36,000		36,000
2	<u>FOURTH CLIFF, LOCATION NO. 114</u>				
	Btry. #2, Constr. #208				
	2-6" BC Shielded	150,000	200,000	202,400 *	552,400
	* Cost of land estimated at \$206,000, \$3,600 charged to Fire Control station from Augmented Expenditure Program.				
	<u>FORT ANDREWS, LOCATION NO. 117</u>				
1	Remove 8' of concrete				
	retaining wall on flank				
	of Btry. #4, McCook	10,000	600 Mil.Res.		10,600
	2-6" BC to be shielded				
	Contingency		120		120
1	Btry. #3 - Bumpus				
	2-3" BC to be shielded	2,000	None Mil.Res.		2,000
	<u>FORT DUVALL, LOCATION NO. 118:</u>				
1	Btry #5				
	Long 2-16" BC	40,000	550,000 Mil.Res.		590,000
	To be casemated				
	Approved Ref. #1				
	<u>FORT STRONG, LOCATION NO. 122</u>				
1	Btry. #6				
	Stevens 2-3" BC	2,000	None Mil.Res.		2,000
	To be shielded				
1	Btry. #7				
	Basinger 2-3" BC	2,000	None Mil.Res.		2,000
	To be shielded				
1	Btry #8				
	Taylor 2-3" BC	2,000	None Mil.Res.		2,000
	To be shielded				

S E C R E T

Exhibit 10-A, Page 1 of 3 Pages

S E C R E T

Form #10. Annex A.

H. D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION

Prio-:Item:	:	:	:	:	:
ity : No.:	Description of Project	Ordnance	Engineer:	Land	Total
<u>FORT STANDISH, LOCATION NO. 123</u>					
1	Remove 6' of retaining wall on flank of Btry. #10.	\$ 10,000	\$ 600 Mil. Res.	\$	10,600
	Whipple 2-6" BC to be shielded				
	Contingency		120		120
1	Btry. #9 Williams 2-3" BC To be shielded	2,000	None Mil. Res.		2,000
<u>OUTER BREWSTER, LOCATION NO. 126</u>					
2	Btry. #11 Constr. #209 2-6" BC Shielded	150,000	250,000 Mil. Res.		400,000
<u>FORT DAWES, LOCATION NO. 127</u>					
3	Btry. #12 Constr. #105 2-16" BC Casemated	870,000	1,500,000 Mil. Res.		2,370,000
2	Btry. #13 Constr. #207 2-6" BC Shielded	150,000	165,000 Mil. Res.		315,000
3	1 Bombproof magazine 200-16" Proj. and 800-6" Proj. 60' x 30' x 10' Contingency	None	65,000 Mil. Res.		65,000
			13,000		13,000
3	2 Bombproof magazines 30' x 115' x 8' for storage of 200-16" and 800-6" powder charges Contingency	None	200,000 Mil. Res.		200,000
			40,000		40,000
<u>FORT RUCKMAN, LOCATION NO. 130</u>					
1	Btry. #14 Gardner 2-12" To be casemated	40,000	550,000 Mil. Res.		590,000
1	Leveling concrete on gun block Btry. Gardner Contingency	None	2,000 Mil. Res.		2,000
			400		400
2	1 Bombproof magazine for 400-6", 140-12" 200-16" 65' x 30' x 10' Contingency	None	70,000 103,000		173,000
			14,000		14,000

S E C R E T

Exhibit 10-A, Page 2 of 3 Pages

S E C R E T

Form #10. Annex A.

H. D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION

Prio-:Item:	:	:	:	:	:
ity: No.:	Description of Project	Ordnance:	Engineer:	Land	Total
<u>FORT RUCKMAN, LOCATION NO. 130 (cont'd)</u>					
2	2 Bombproof magazines 30' x 120' x 8' for storage of 400-6", 140-12" and 200-16" powder charges Contingency	None	\$210,000	Inc. in tract above	\$210,000
			42,000		42,000
<u>EAST POINT, LOCATION NO. 131</u>					
2	Btry. #15 Constr. #206 2-6" BC Shielded	150,000	165,000	Incl. in tract for Btry #104	315,000
3	Btry. #16 Constr. #104 2-16" BC Casemated	870,000	1,400,000	91,000	2,361,000
Totals		\$3,320,000	\$7,225,840	\$451,900	\$10,997,740

S E C R E T

Exhibit 10-A, Page 3 of 3 Pages

ANNEX B

FIRE CONTROL

S E C R E T

HARBOR DEFENSES OF BOSTON

ANNEX B - Exhibits

EXHIBIT

CONTENTS

1-B	Fortification Construction - Signal Cable Installations (Form #12)
2-B	Harbor Defense Fire Control Requirements (Exclusive of Battery Requirements) (Form #13)
3-B	Battery Fire Control Requirements by Battery (Form #14)
4-B	Fire Control Diagram (lines) (Form #15)
5-B	Communications Diagram (blocks) (Form #16)
6-B	Cable Route Map (Form #17)
7-B	Radio Net Diagram (Form #18)
8-B	Cost Estimate and Priority Guide - Fire Control - Engineer (Form #19)
9-B	Cost Estimate and Priority Guide - Fire Control - Signal and Ordnance (Form #20)
10-B	Location Numbers (See List and Map Preceding Annex A)
11-B	Elements, Fire Control System
12-B	F. C. Chart, Btry. #1, 2-16" BC, Flowers Hill (Constr. #106)
13-B	F. C. Chart, Btry. #2, 2-6" BC, Fourth Cliff (Constr. #208)
14-B	F. C. Chart, Btry. #4, 2-6" BC, Fort Andrews (Btry. McCook)
15-B	F. C. Chart, Btry. #5, 2-16" BC, Fort Duvall (Btry. Long)
16-B	F. C. Chart, Btry. #10, 2-6" BC, Fort Standish (Btry. Whipple)
17-B	F. C. Chart, Btry. #11, 2-6" BC, Outer Brewster (Constr. #209)
18-B	F. C. Chart, Btry. #12, 2-16" BC, Fort Dawes (Constr. #105)
19-B	F. C. Chart, Btry. #13, 2-6" BC, Fort Dawes (Constr. #207)
20-B	F. C. Chart, Btry. #14, 2-12" BC, Fort Ruckman (Btry. Gardner)
21-B	F. C. Chart, Btry. #15, 2-6" BC, East Point (Constr. #206)
22-B	F. C. Chart, Btry. #16, 2-16" BC, East Point (Constr. #104)
23-B	Primary Armament - HD of Boston
24-B	Secondary Armament - HD of Boston
25-B	Basic Information for Construction of Fire Control and Communications Diagrams (Form #40)

S E C R E T

S E C R E T

Form #12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION - SIGNAL
CABLE INSTALLATIONS

Pri:	Item:	Description of Project	Material:	Labor	Total
or-	No.:				
ity:					
		<u>SUBMARINE CABLE</u>			
3	1	<u>Manomet (110) to Gurnet (111)</u>			
		36,000 Ft. WC 327 @ 57¢ a ft.	\$20,520		
		For HD 15 pairs		Note 1	
		For H Hq & att 28 pairs			
		43 pairs			
		Proposed 50 pairs			
		2 terminals	750	\$750	
		Contingency	4,300	150	\$26,470
2	2	<u>Gurnet (111) to Brant Rock (112)</u>			
		37,000 ft. WC 328 @ 70¢ a ft.	25,900		
		For HD 26 pairs		Note 1	
		For HHq & att 28 pairs			
		54 pairs			
		Proposed 75 pairs			
		1 Terminal	325	325	
		Contingency	5,250	65	31,865
1	3	<u>Brant Rock (112) to Fourth Cliff (114)</u>			
		36,000 ft., WC 329 @ 82¢ a ft.	29,520		
		For HD 53 pairs		Note 1	
		For H Hq & Att 28 pairs			
		81 pairs			
		Proposed 100 pairs			
		Terminal	325	325	
		Contingency	6,000	65	36,235
1	4	<u>Fourth Cliff (114) to Flower Hill (113)</u>			
		3,900 ft. WC 329 @ 82¢ a ft.	3,198		
		For HD 59 pairs		Note 1	
		For H Hq & att 28 pairs			
		87 pairs			
		Proposed 100 pairs			
		Terminal	325	325	
		Labor		4000	
		Contingency	700	860	9,408
1	5	<u>Fourth Cliff (114) to Strawberry Point (115)</u>			
		48,000 ft. WC 329 @ 82¢ a ft.	39,360		
		For HD 68 pairs		Note 1	
		For H Hq & att 28 pairs			
		96 pairs			
		Proposed 100 pairs			
		Terminal	325	325	
		Contingency	7,900	65	47,975

S E C R E T

Exhibit 1-B. Page 1 of 10 pages.

S E C R E T

Form #12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION - SIGNAL
CABLE INSTALLATIONS

Pri:	Item:	Description of Project	Material:	Labor:	Total
or-:	No.:				
	6	<u>Strawberry Point (115) to Point Allerton (120)</u>			
		44,000 ft., WC 328 @ 70¢ a ft.	\$30,800		
		For HD 46 pairs		Note 1	
		For H Hq & att 28 pairs			
		74 pairs			
		Proposed (additional) 75 pairs			
		Existing 46 pairs			
		Terminal 325	\$325		
		Contingency 6,200	65		\$37,715
3	7	<u>Point Allerton (120) to Fort Standish (123)</u>			
		13,000 ft., WC 328 @ 70¢ a ft.	9,100		
		For HD 32 pairs		Note 1	
		For H Hq & att 28 pairs			
		60 pairs			
		Proposed 75 pairs			
		Terminal 325	325		
		Contingency 1,900	65		11,715
1	8	<u>Fort Revere (119) to Fort Warren (121)</u>			
		7,000 ft., WC 328 @ 70¢ a ft.	4,900		
		For HD 22 pairs		Note 1	
		For H Hq & att 28 pairs			
		50 pairs			
		Proposed 75 pairs			
		Contingency 1,000			5,900
1	9	<u>Fort Warren (121) to Fort Strong (122)</u>			
		9,000 ft. WC 328 @ 70¢ a ft.	6,300		
		For HD 22 pairs		Note 1	
		For H Hq & att 28 pairs			
		50 pairs			
		Proposed 75 pairs			
		Contingency 1,300			7,600
2	10	<u>Fort Standish (123) to Galf Island (125)</u>			
		10,000 ft. WC 328 @ 70¢ a ft.	7,000		
		For HD 26 pairs		Note 1	
		For H Hq & att 28 pairs			
		54 pairs			
		Proposed 75 pairs			
		Terminal 325	325		
		Contingency 1,500	65		9,215

S E C R E T

Exhibit 1-B, Page 2 of 10 pages

S E C R E T

Form #12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION - SIGNAL
CABLE INSTALLATIONS

Pri- or- ity:	Item: No.:	Description of Project	Material:	Labor	Total
2	11	<u>Calf Island (125) to Outer Brewster (126)</u> 5,000 ft. WC 328 @ 70¢ a ft. For HD 22 pairs For H Hq & att 28 pairs 50 pairs Proposed 75 pairs Terminal 325 Contingency 700	\$ 3,500	Note 1 \$325 65	\$4,915
3	12	<u>Fort Standish (123) to Fort Dawes (127)</u> 10,000 ft. WC 328 @ 70¢ a ft. For HD 32 pairs For H Hq & att 28 pairs 60 pairs Proposed 75 pairs Contingency	7,000 1,400	Note 1 	8,400
1	13	<u>Fort Strong (122) to Fort Dawes (127)</u> 8,000 ft. WC 328 @ 70¢ a ft. For HD 37 pairs For H Hq & att 28 pairs 65 pairs Proposed 75 pairs Contingency	5,600 1,120	Note 1 	6,720
1	14	<u>Fort Dawes (127) to East Point (131)</u> 31,000 ft., WC 329 @ 82¢ a ft. For HD 86 pairs For H Hq & att 28 pairs 114 pairs Proposed 100 pairs (20 pr maybe routed thru existing cable-Ft. Dawes-Banks-Heath-Ruckman) Contingency	25,420 5,100	Note 1 	30,520
3	15	<u>East Point (131) to Marblehead Neck (132)</u> 37,000 ft. WC 329 @ 82¢ a ft. 37,000 ft. WC 325 @ 45¢ a ft. For HD 96 pairs For H Hq & att 28 pairs 124 pairs Additional prop- osed. 125 pairs Terminal 325 Contingency 9,400	30,340 16,650 325 9,400	Note 1 325 65	57,105

S E C R E T

S E C R E T

Form 12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION - SIGNAL
CABLE INSTALLATIONS

Pri- or- ity	Item No.	Description of Project	Material	Labor	Total
1	16	<u>Fort Ruckman (130) to East Point (131)</u> 10,000 ft. WC- 328 @ 57¢ a ft. For HD 18 pairs For H Hq & att 28 pairs 46 pairs Proposed 50 pairs Cable Terminal 325 Contingency - 20% 1,200	\$5,700 325 1,200	Note 1 \$325 65	\$7,615
1	17	<u>Fort Ruckman (130) to Marblehead Neck (132)</u> For HD 12 pairs For H Hq & att 15 pairs 27 pairs Authorized 27 pairs Proposed None			
1	18	<u>Marblehead Neck (132) to Gales Point (133A)</u> 31,000 ft. WC 329 @ 82¢ a ft. For HD 55 pairs For H Hq & att 28 pairs 83 pairs Proposed 100 pairs Terminal 325 Contingency 5,200	25,420 325 5,200	Note 1 325 65	31,335
1	19	<u>Gales Point (133A) to Coolidge Point (134)</u> 15,000 ft. WC 328 @ 70¢ a ft. For HD 44 pairs For H Hq & att 28 pairs 72 pairs Proposed 75 pairs Terminal 325 Contingency 2,200	10,500 325 2,200	Note 1 325 65	13,415
2	20	<u>Coolidge Point (134) to Eastern Point (134A)</u> 19,000 ft. WC 328 @ 70¢ a ft. For HD 41 pairs For H Hq & att 28 pairs 69 pairs Proposed 75 pairs Terminal 325 Contingency 2,700	13,300 325 2,700	Note 1 325 65	16,715

S E C R E T

Exhibit 1-B. Page 4 of 10 pages.

S E C R E T

Form 12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION - SIGNAL
CABLE INSTALLATIONS

Pri- or- ity	Item No.	Description of Project	Material	Labor	Total
3	21	<u>Eastern Point (134A) to Emerson Point (135)</u> 42,000 ft. WC 328 @ 70¢ a ft. For HD 30 pairs For H Hq & att 28 pairs 58 pairs Proposed 75 pairs Terminal 325 Contingency - 20% 6,000	\$29,400 325 6,000	Note 1 \$ 325 65	 \$36,115
3	22	<u>Emerson Point (135) to Halibut Point (136)</u> 57,000 ft. WC 327 @ 57¢ a ft. For HD 16 pairs For H Hq & att 28 pairs 44 pairs Proposed 50 pairs Terminal 325 Contingency - 20% 6,600	32,490 325 6,600	Note 1 325 65	 39,805
3	23	<u>Halibut Point (136) to Castle Hill (137)</u> 40,000 ft. WC 327 @ 57¢ a ft. For HD 5 pairs For H Hq & att 28 pairs 33 pairs For HD Portsmouth 5 pairs 38 pairs Proposed 50 pairs Terminal 325 Contingency 4,600	22,800 325 4,600	Note 1 325 65	 28,115
		TOTAL FOR SUBMARINE CABLE			\$504,873

S E C R E T

Exhibit 1-B. Page 5 of 10 pages.

S E C R E T

Form #12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION - SIGNAL
CABLE INSTALLATIONS

Pri- or- ity	Item No.	Description of Project	Material	Labor	Total
		<u>SUBTERRANEAN CABLE</u>			
1	24	<u>Brant Rock (112) to Site 1A to Site 2A</u> 2,000 ft. 50 pair WC-367 authorized augmented program.			
1	25	<u>Strawberry Point (115) Site 1A to Site 1B</u> 1,000 ft. WC-367 For HD 10 pairs For H Hq & att 28 pairs 38 pairs Proposed 50 pairs Trenching Contingency - 20%		\$1,250 250	\$1,500
2	26	<u>Site 1A to Site 1C</u> 1,000 ft. WC-367 For HD 9 pairs For H Hq & att 28 pairs 37 pairs Proposed 50 pairs Trenching Contingency 2,000 ft. WC-367 authorized augmented program for Strawberry Point.		1,250 250	1,500
1	27	<u>Point Allerton (120) Across Nantasket</u> 1,000 ft. WC-367@ 32¢ For HD 46 pairs For H Hq & att 28 pairs 74 pairs Existing 46 pairs Proposed 50 pairs Trenching Contingency	\$320 65	1,250 250	1,885

S E C R E T

S E C R E T

Form #12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION -- SIGNAL
CABLE INSTALLATIONS

Pri- or- ity	Item No.	Description of Project	Material	Labor	Total
1	28	<u>Fort Ruckman (130)</u> <u>Battery Gardner to Site 2A</u> 1,000 ft., WC 367 @ 32¢ a ft. For H.D. 17 pairs For H. Hq & att 28 pairs 45 pairs Proposed 50 pairs Trenching Contingency	\$ 320 65	 \$1,250 250	 \$1,885
1	29	<u>East Point (131)</u> <u>Site 1A to Site 2A</u> 500 ft. WC 367 @ 32¢ a ft. For HD 14 pairs For H Hq & att 28 pairs 42 pairs Proposed 50 pairs Trenching Contingency - 20%	160 35	 625 130	 950
1	30	<u>Site 1A to Site 3B</u> 2,000 ft. WC 360 @ 56¢ a ft. For HD 108 pairs For H Hq & att 28 pairs 136 pairs Authorized 50 pairs Additional pro- posed 100 pairs Trenching Contingency - 20%	640 130	 2,500	 3,270
1	31	<u>Site 2B to Site 4A</u> 2,000 ft. WC 360 @ 56¢ a ft. For HD 26 pairs For H Hq & att 28 pairs 54 pairs Proposed 100 pairs Trenching Contingency - 20%	640 130	 2,500	 3,270
2	32	<u>Site 4A to Site 5A</u> 1,000 ft. WC 367 @ 32¢ a ft. For HD 10 pairs For H Hq & att 28 pairs 38 pairs Proposed 50 pairs Trenching Contingency - 20%	320 65	 1,250 250	 1,885

S E C R E T

Exhibit 1-B. Page 7 of 10 pages.

S E C R E T

Form #12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION - SIGNAL
CABLE INSTALLATIONS

Pri- or- ity	Item No.	Description of Project	Material	Labor	Total
2	33	<u>Marblehead Neck (132)</u> <u>Cable Terminal to Site 2A</u> 5,000 ft. WC 367 For HD 12 pairs For H Hq & att 28 pairs 40 pairs Authorized 50 pairs Additional Proposed None			
2	34	<u>Cable Terminal to Site 1A</u> 5,000 WC 360 @ 56¢ a ft. For HD 25 pairs For H Hq & att 28 pairs 53 pairs Proposed 100 pairs Trenching Contingency - 20%	\$2,800 560	 \$6,250 1,250	 \$10,860
2	35	<u>Site 1A to Site 3A</u> 3,000 ft. WC 367 @ 32¢ a ft. For HD 12 pairs For H Hq & att 28 pairs 40 pairs Proposed 50 pairs Trenching Contingency - 20%	960 190	 3,750 750	 5,650
2	36	<u>Gales Point (133A)</u> <u>Cable Terminal to Site 1A</u> 2,000 ft. WC 367 @ 32¢ a ft. For HD 17 pairs For H Hq & att 28 pairs 45 pairs Proposed 50 pairs Trenching Contingency - 20%	640 130	 2,500 500	 3,770
1	37	<u>Coolidge Point (134)</u> <u>Cable Terminal to Site 1A</u> 6,000 ft. WC 367 @ 32¢ a ft. For HD 12 pairs For H Hq & att 28 pairs 40 pairs Proposed 50 pairs Trenching Contingency - 20%	1,920 380	 7,500	 9,800

S E C R E T

Exhibit 1-B. Page 8 of 10 pages.

S E C R E T

Form #12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION - SIGNAL
CABLE INSTALLATIONS

Pri- or- ity	Item No.	Description of Project	Material	Labor	Total
3	38	<u>Eastern Point (134A) C</u> <u>Cable Terminal to Site 1A</u> 5,000 ft. WC 367 @ 32¢ a ft. For HD 14 pairs For H Hq & att 28 pairs 42 pairs Proposed 50 pairs Trenching Contingency - 20%	\$1,600 320	 \$6,250 1,250	 \$9,420
3	39	<u>Emerson Point (135)</u> <u>Cable Terminal To Site 1A</u> 3,000 ft. WC 367 @ 32¢ a ft. For HD 14 pairs For H Hq & att 28 pairs 42 pairs Proposed 50 pairs Trenching Contingency - 20%	960 190	 3,750 750	 5,650
3	40	<u>Halibut Point (136)</u> <u>Cable Terminal to Site 1-A</u> 6,000 ft. WC 360 @ 32¢ a ft. For HD 14 pairs For HD Portsmouth 5 pairs For H Hq & att 28 pairs 47 pairs Proposed 50 pairs Trenching Contingency - 20%	1,920 385	 7,500 1,500	 11,305
Total for Subterranean Cables					\$72,600
<u>Miscellaneous Items</u>					
Miscellaneous wiring and cables from switchboard rooms to batteries and interior cable installations			13,000 2,600	20,000 4,000	39,600
Additional cost of trenching for 46,500 feet of subterranean cable at 75¢ per foot. (Cost of trenching computed in subterranean cable section at \$1.25 per foot. Cost now estimated at \$2.00 per foot) Contingency				34,875 7,000	 41,875
Total for Miscellaneous Items					\$ 81,475

S E C R E T

S E C R E T

Form #12 Annex B

H.D. of Boston

Cost Estimate and Priority Guide

FORTIFICATION CONSTRUCTION -- SIGNAL
CABLE INSTALLATIONS

Pri:Item:	:	:	:	:
or-: No.:	Description of Project	Material:	Labor:	Total
ity: :	:	:	:	:
<u>Recapitulation:</u>				
	Total Submarine Cable			\$504,873
	Total Subterranean Cable			72,600
	Total Miscellaneous Items			<u>81,475</u>
	GRAND TOTAL			\$658,948

NOTES:

1. Labor by U.S. Cables ship.
2. In addition to cable needs of the H.D. the following pairs were included.

Air Warning Service	2 pairs
Reinforcing Artillery	5 pairs
Reinforcing AA Artillery	5 pairs
First Army	4 pairs
New England Sector	2 pairs
Boston Sub-sector	2 pairs
Beach Defense Forces	4 pairs
Navy and Coast Guard	<u>4 pairs</u>
Total	28 pairs

3. Alternate cable routes were listed across the bay to insure service regardless of injury to one cable.
4. Existing cables laid prior to 1931 were eliminated in computing cable requirements.
5. The following authorized submarine cables were not listed in the requirements but were considered as available.

Fort Revere to Point Allerton	7,000 ft.- 100 pairs
Fort Heath to Fort Ruckman	17,000 ft.- 50 pairs
Fort Ruckman to Marblehead Neck	5,000 ft.- 27 pairs

S E C R E T

Exhibit 1-B. Page 10 of 10 pages.

HARBOR DEFENSE FIRE CONTROL REQUIREMENTS
(Exclusive of Battery Requirements)

Loca-: : : Purpose: : Approx: : Approx: Combined: : tion : Site: Item: of : Exhi- : Coordi: Type of: H. I. & : with : Grd. : Acreage No. : No.: No.: Station: bit : nates : Station: Type : Stations: Elev.: Required									
110	1A	AAIS OP-1	1-I-1	2 story None cottage	B ₁ ¹ S ₁ ¹	72'	100x150 2-H-1		
					C ₁ ¹ OP				
110	1A	C ₁ ¹ -OP	1-I-1	2 story 92' cottage A.I.	AAIS-OP1 B ₁ ¹ S ₁ ¹	72'	100x150 2-H-1		
111	1A	AAIS OP-2	1-I-2	1 story None cottage	B ₂ ¹ S ₂ ¹ B ₁ ² S ₁ ²	62'	200x200 2-H-2		
112	1A	AAIS OP-3	1-I-3	2 story None steel tower	B ₁₂ ¹ S ₁₂ ¹ B ₂ ² S ₂ ²	25'	80x100 2-H-3		
114	1A	AAIS OP-4	1-I-5	3 story None cottage	B ₁₁ ¹ S ₁₁ ¹ B ₁₆ ¹ S ₁₆ ¹	52'	45 acres Incl. in const. Btry. #208 2-H-5		
					G ₁ - OP				
					G ₁ - CP				
114	1A	G ₁ -OP	1-I-5	3 story 77' cottage DPF	AAIS-OP4 B ₁₁ ¹ S ₁₁ ¹ B ₁₆ ¹ S ₁₆ ¹	52'	45 acres Incl. in const. Btry. #208 2-H-5		
					G ₁ - CP				
114	1A	G ₁ -CP	1-I-5	3 story None cottage	AAIS-OP4 B ₁₁ ¹ S ₁₁ ¹ B ₁₆ ¹ S ₁₆ ¹	52'	45 acres Incl. in const. Btry. #208 2-H-5		
					G ₁ - OP				

SECRET

Exhibit 2-B, Page 1 of 7 pages.

S E C R E T

Form No. 13, Annex B

H. D. of Boston

HARBOR DEFENSE FIRE CONTROL REQUIREMENTS
(Exclusive of Battery Requirements)

Loca- tion No.	: Site No.	: Item No.	: Purpose of Station	: Exhi- bit	: Coordi- nates	: Type of Station	: Approx: H.I. & Type	: Approx: Combined with Stations	: Grd. Elev.	: Acreage Required
115	1A		AAIS OP-5	1-I-6		3 story steel tower	None	B ¹ ₁₅ S ¹ ₁₅ B ¹ ₁₃ S ¹ ₁₃ B ⁵ ₁ S ⁵ ₁	40'	17 acres Incl.area for 3 oth- er stas. 2-H-6
115	1B		G ₂ -OP	1-I-6		3 story cottage	65' A.I.	B ₂ S ₂ B ₁₂ S ₁₂ G ₂ -CP	35'	17 acres incl.area for 3 oth- er stas. 2-H-6
115	1B		G ₂ -CP	1-I-6		3 story cottage	None	B ₂ S ₂ B ₁₂ S ₁₂ G ₂ -OP	35'	17 acres Incl.area for 3 oth- er stas. 2-H-6
115	1D		C ₁ ² -OP	1-I-6		3 story cottage	40' A.I.	B ₁₆ S ₁₆ B ₁₁ S ₁₁	25'	17 acres Incl.area for 3 oth- er stas. 2-H-6
116	1A		AAIS- OP6	1-I-7		1 story concrete observation sta. (Existing)	None	B ₁₀ S ₁₀	100'	Military Reserv'n
117	1G		FC Switch- board	1-I-8		Existing Concrete Bombproof	None	None	70'	Military Reserv'n
119	1A		M ₁ ² R M ₁ ² L	1-I-10		Double Mine sta. DPF Frame Existing DPF	120'	None	110'	Military Reserv'n
119	1E		F.C. Switch- board	1-I-10		Existing Concrete Bombproof	None	None	100'	Military Reserv'n

S E C R E T

Exhibit 2-3. Page 2 of 7 pages.

S E C R E T

Form No. 13, Annex B

H. D. of Boston

HARBOR DEFENSE FIRE CONTROL REQUIREMENTS
(Exclusive of Battery Requirements)

Loca- tion No.	Site No.	Item No.	Purpose of Station	Exhi- bit	Approx: Coordi- nates	Approx: Type of Structure	Approx: H.I.& Type	Combined: with Stations	Grd. Elev.	Acreage Required
120	1A		AAIS OP-7	1-I-11		Cupola steel tower	None	B ³ ₁₆ S ³ ₁₆ B ³ ₁₁ S ³ ₁₁ B ² ₁₃ S ² ₁₃	125'	200x200 2-H-7
120	2A		C ³ ₁ - OP	1-I-11		3 story cottage	126.4' DPF	B ² ₁₄ S ² ₁₄ BC 5 B ⁴ ₅ S ⁴ ₅ C1-CP	100'	Military Reserv'n
120	2A		C1-CP	1-I-11		3 story cottage	None	B ² ₁₄ S ² ₁₄ BC 5 B ⁴ ₅ S ⁴ ₅ C ³ ₁ - OP	100'	Military Reserv'n
121	1A		MG ₁ -OP MG ₁ -CP	1-I-12		Stucco 2 room station (Exist- ing)	74.7' A.I.	None	70'	Military Reserv'n
121	1C		M ₁ Casemate	1-I-12		Concrete Under- ground (Exist- ing)	None	None	20'	Military Reserv'n
121	1D		AAIS-OP8	1-I-12		2 story brick (Exist- ing)	None	C ¹ ₂ - OP SDC-CP	70'	Military Reserv'n
121	1D		C ¹ ₂ - OP	1-I-12		2 story brick (Exist- ing)	77.9' A.I.	AAIS-OP8 SDC-OP	70'	Military Reserv'n
121	1D		SDC-OP	1-I-12		2 story brick (Exist- ing)	86' DPF A.I.	AAIS-OP8 C ¹ ₂ - OP	70'	Military Reserv'n

S E C R E T

Exhibit 2-B. Page 3 of 7 pages.

S E C R E T

Form No. 13, Annex B

H. D. of Boston

HARBOR DEFENSE FIRE CONTROL REQUIREMENTS
(Exclusive of Battery Requirements)

Loca- tion No.	: Site No.	: Item No.	: Purpose of Station	: Exhi- bit	: Approx: Coordi- nates	: Type of Station	: H.I. & Type	: Combined: with Stations	: Grd. Elev.	: Acreage Required
121	1D		SD-CP	1-I-12		Gallery	None	C2-CP	20'	Military Reserv'n
121	1D		C2-CP	1-I-12		Gallery	None	SD-CP	20'	Military Reserv'n
121	1E		M ₁ ¹ - OP	1-I-12		Stucco Double Station (Existing)	69.6' DPF	M1-CP & OP M1-P	65'	Military Reserv'n
121	1G		F.C. Switch-board	1-I-12		(Existing) Concrete	None	None	20'	Military Reserv'n
122	1E		M ₂ Casemate	1-I-13		Concrete Under-ground (Existing)	None	None	30'	Military Reserv'n
122	1H		F.C. Switch-board	1-I-13		(Existing) Concrete Under-ground	None	None	30'	Military Reserv'n
123	1G		M ₂ ² R M ₂ ² L	1-I-14		(Existing) Stucco station	50.2' D.P.F.	M2-CP M2-P	40'	Military Reserv'n
123	1G		M2-CP	1-I-14		(Existing) Stucco station	None	M ₂ ² R M ₂ ² L M2-P	40'	Military Reserv'n
123	1J		F.C. Switch-board	1-I-14		(Existing) Under-ground	None	None	20'	Military Reserv'n
126	1A		AAIS-OP9	1-I-15		2 story cottage	None	B ₁₁ ⁴ S ₁₁ ⁴ BC ₁₁	65'	Military Reserv'n
127	1G		AAIS-OP10	1-I-16		1 story concrete station (Existing)	None	BC ₁₃	105'	Military Reserv'n
127	1H		M ₂ ¹ R M ₂ ¹ L	1-I-16		1 story double concrete (Existing)	58' D.P.F.	None	50'	Military Reserv'n

S E C R E T

Exhibit 2-B. Page 4 of 7 pages.

S E C R E T

Form No. 13, Annex B

H. D. of Boston

HARBOR DEFENSE FIRE CONTROL REQUIREMENTS
(Exclusive of Battery Requirements)

Loca- tion No.	: Site No.	: Item No.	: Purpose of Station:	: Exhibit bit	: Approximate Coordinates:	: Type of Station:	: H.I. & Type	: Combined with Stations:	: Grd. Elev.	: Acreage Required
127	1I		C ₃ ¹ OP 1-I-16		1 story 58'	MG2-CP-OP	50'	Military Reserv'n		
					triple D.P.F. stucco (Existing)		B ₃ ³ S ₃ ³ 10 10			
127	1I		MG2-CP-OP 1-I-16		1 story 58'	C ₃ ¹ - OP	50'	Military Reserv'n		
					triple D.P.F. stucco (Existing)		B ₃ ³ S ₃ ³ 10 10			
127	1J		HECP-OP-CP 1-I-16		Standard 90'	HECP A.I. Tower	Radio station Signal station	60'	Military Reserv'n	
128	1A		"H" 1-I-17		Mortar Battery magazine (Existing)	None	Boston Sub-sector AACF Radio Message Center F.C. & Post Switch-board	20'	Military Reserv'n	
129	1A		AAIS-OP11 1-I-18		1 story concrete station (Existing)	None	B ₄ ³ S ₄ ³	78'	Military Reserv'n	
130	1A		C ₃ -CP 1-I-19		3 story cottage	None	BG1 ₄ ⁴ B ₄ ⁴ S ₄ ⁴ 10 10	85'	72x135 2-H-8	
131	1A		AAIS-OP12 1-I-20		3 story cottage	None	B ₁₅ ³ S ₁₅ ³ 12 12 G ₃ ⁵ -OP G ₃ ⁵ -CP	35'	4,032 sq. ft. 2-H-9	
131	1A		G ₃ - OP 1-I-20 G ₃ - CP		3 story cottage A.I.	80'	AAIS-OP12 35'	4,032 sq. ft. 2-H-9		
							B ₁₅ ³ S ₁₅ ³ 12 12			

S E C R E T

Exhibit 2-B. Page 5 of 7 pages.

S E C R E T

Form No. 13, Annex B

H. D. of Boston

HARBOR DEFENSE FIRE CONTROL REQUIREMENTS
(Exclusive of Battery Requirements)

Loca- tion No.	: Site: No.	: Item: No.	: Purpose: of Station	: Exhi- bit	: Approx: Coordi- nates	: Approx: Type of Station	: Approx: H.I.& Type	: Combined: with Stations	: Grd. Elev.	: Acreage Required
131	4A		G ₄ -OP G ₄ -CP	1-I-20	3 story concrete station	80'	B ⁵ ₅ S ⁵ ₅ B ⁵ ₁₁ S ⁵ ₁₁	45'	71,000 sq. ft. 2-H-9	
132	2A		AAIS- OP13	1-I-21	2 story cottage	None	B ⁶ ₅ S ⁶ ₅ B ⁴ ₁₄ S ⁴ ₁₄	74'	Military Reserv'n	
132	3A		C ₃ ² - OP	1-I-21	3 story cottage	69' AI	B ⁵ ₁₃ S ⁵ ₁₃ B ⁶ ₁₂ S ⁶ ₁₂	50'	66,850 sq. ft. 2-H-10	
133A	1A		AAIS- OP14	1-I-22	Windmill Tower	None	B ⁶ ₁₆ S ⁶ ₁₆ B ⁷ ₁₂ S ⁷ ₁₂ B ⁵ ₁₅ S ⁵ ₁₅	80'	100x150 2-H-11	
134	1A		AAIS- OP15	1-I-23	2 story steel tower	None	B ⁷ ₅ S ⁷ ₅ B ⁵ ₁₄ S ⁵ ₁₄	80'	Military Reserv'n	
134A	1A		AAIS- OP16	1-I-24	3 story cottage	None	B ⁷ ₁₆ S ⁷ ₁₆ B ⁸ ₁₂ S ⁸ ₁₂	20'	100x200 2-H-12	
135	1A		AAIS- OP17	1-I-25	3 story cottage	None	B ⁹ ₁₂ S ⁹ ₁₂ B ⁸ ₁₆ S ⁸ ₁₆ C ₃ ³ - OP	60'	26,135 sq. ft. 2-H-13	
135	1A		C ₃ ³ -OP	1-I-25	3 story cottage	89' AI	AAIS-OP17 B ⁹ ₁₂ S ⁹ ₁₂ B ⁸ ₁₆ S ⁸ ₁₆	60'	26,135 sq.ft. 2-H-13	

S E C R E T

Exhibit 2-B. Page 6 of 7 pages.

S E C R E T

Form No. 13, Annex B

H. D. of Boston

HARBOR DEFENSE FIRE CONTROL REQUIREMENTS
(Exclusive of Battery Requirements)

Loca- tion No.	Site No.	Item No.	Purpose of Station	Exhi- bit	Approx: Coordi- nates	Approx: Type of Station	Approx: Combined H. I. & S with Stations	Grd. Elev.	Acreage Required
136	1A		AAIS- OP18	1-I-26	3 story cottage	None	B ⁹ ₁₆ S ⁹ ₁₆	100'	
							* B ¹ ₂ S ¹ ₂		2 acres
							C ⁴ ₃ - OP		2H-14
136	1A		C ⁴ ₃ -OP	1-I-26	3 story cottage	114' AI	AAIS-OP18	100'	
							B ⁹ ₁₆ S ⁹ ₁₆		2 acres
							* B ¹ ₂ S ¹ ₂		2-H-14

*H. D. of Portsmouth

DATUM POINTS:

Plum Island Coast Guard	Bumpus C.R.F.
Light House - Straitmouth Island	Deer Island B ³ ₁₆ Lincoln
Light House - Thatcher Island	Deer Island B ³ ₁₇ Kellogg
Light House - Eastern Point	Deer Island B ³ ₁₈ Winthrop
East Gloucester Light	Banks D.P. Lincoln
Coolidge Point	Banks D.P. Kellogg
Marblehead Light	Cedar Point
Great Pig Rock	3rd Cliff, Scituate
Shag Rock, Nahant	4th Cliff, Scituate
Lynn Beach 155	Brant Rock Tower
East Point, Nahant	Brant Rock Datum
Spouting Horn	Seawall Datum, Brant Rock
Graves Light	Gurnet Light Datum
Green Island	Boston Light Datum
Outer Brewster, South	Bassinger C.R.F. #14
Outer Brewster, West	Stevenson, D.P.
Outer Brewster, triangulation	Cushing and Whitman D.P.
Calf Island	110' chimney-Rocky Point
Williams C.R.F.	Tank-Manomet Point
Whipple C.R.F.	Stand Pipe - Sagamore Beach
Whipple D.P. & B.C.	Pilgrim Mon. - Provincetown
McCook C.R.F.	Coast Guard Tower - Town Beach

S E C R E T

Exhibit 2-B. Page 7 of 7 pages.

S E C R E T

Form 14, Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery _____ Const. No. 106 Tactical No. 1

Type and Caliber 2-16" BC (C) Element of Group G-1

Location 113 Place Flowers Hill

Classification: TO BE CONSTRUCTED.

Battery eliminated from Project

Loca-:Site:Item:	Fire:	Exhi-:Approx:	Type of:Approx:	Combined:Ground:Acreeage
tion :No. :No. :	Cont:	bit :Coordi:	Station: K-1 :	with :Eleva-:Required
No. : : :	Sta:	: nates:	*Type : Stations:	tion :
110 1-A	B ₁ ¹ S ₁ ¹	1-I-1	2 story Cottage	100' AAIS-OP1 72' 100x150' 2-H-1
111 1-A	B ₁ ² S ₁ ²	1-I-2	1 story Cottage	81' AAIS-OP2 62' 200x200' 2-H-2
112 2-A	B ₁ ³ S ₁ ³	1-I-3	2 story Tower	77' B ₁ ¹ S ₁ ¹ 10' 24,020 sq.ft. 2-H-3
113 1-B	BC ₁	1-I-4	1 story Tower	110' None 80' 76.5 Acres 2-H-4
114 1-D	B ₁ ⁴ S ₁ ⁴	1-I-5	3 story Cottage	75' B ₂ ³ S ₂ ³ 40' 45 Acres 2-H-5
115 1-A	B ₁ ⁵ S ₁ ⁵	1-I-6	3 story Tower	105' AAIS-OP5 40' 17 Acres 2-H-6

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line		Azimuth	Length	Azimuth and length were determined by:
From	To			
Station	Station			
B ₁ ¹ S ₁ ¹	B ₁ ² S ₁ ²	151.0	10,900	Map
B ₁ ² S ₁ ²	B ₁ ³ S ₁ ³	159.0	11,100	Map
B ₁ ³ S ₁ ³	B ₁ ⁴ S ₁ ⁴	146.5	10,200	Map
B ₁ ⁴ S ₁ ⁴	B ₁ ⁵ S ₁ ⁵	153.5	12,000	Map
BC ₁	B ₁ ⁵ S ₁ ⁵	161.0	13,500	Map
BC ₁	B ₁ ¹ S ₁ ¹	329.0	30,700	Map

S E C R E T

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery _____ Const. No. 208 Tactical No. 2

Type and Caliber 2-6" BC (S) Element of Group G-2

Location 114 Place Fourth Cliff

Classification: TO BE CONSTRUCTED.

Loca- tion No.	Site No.	Item Cont:	Fire bit	Exhi- :Coordi:	Approx: Station:	Type of: I. :	Approx: Combined:	Ground: Eleva-:	Acreege Required
No.	:	:	Sta :	:	notes :	Type :	Stations:	tion :	
111	1-A	B ₂ ¹ S ₂ ¹	1-I-2		1 story Cottage	84' DPF	B ₁ ² S ₁ ² ^{C, OP}	62'	200x200' 2-H-2
112	1-A ^{2-A}	B ₂ ² S ₂ ²	1-I-3		3 story Tower	97' DPF	B ₁₂ ¹ S ₁₂ ¹ ^{B₅' S₅'}	25'	100x80' 2-H-3
114	1-D	B ₂ ³ S ₂ ³	1-I-5		3 story Cottage	67' AI	B ₁ ⁴ S ₁ ⁴ ^{spare} B ₅ ² S ₅ ²	40'	45 Acres 2-H-5
114	1-B	BC ₂	1-I-5		3 story Cottage	85' DPF	B ₁₂ ² S ₁₂ ²	45'	45 Acres 2-H-5
115	1-B	B ₂ ⁴ S ₂ ⁴	1-I-6		3 story Cottage	70' DPF	B ₁₂ ³ S ₁₂ ³ G2 OP G2 CP	35'	17 Acres 2-H-6

With the stations listed above the BASE LINE DATA for this battery will be approximately as follows:

Base Line		:	:	:	:
From	To	:	Azimuth	Length	Azimuth and length
Station	Station	:	:	:	were determined by:
B ₂ ¹ S ₂ ¹	B ₂ ² S ₂ ²	:	160°	10600	Map
B ₂ ² S ₂ ²	B ₂ ³ S ₂ ³	:	146°	10850	Map
B ₂ ³ S ₂ ³	B ₂ ⁴ S ₂ ⁴	:	154°	11800	Map
BC ₂	B ₂ ¹ S ₂ ¹	:	332°	21400	Map
BC ₂	B ₂ ⁴ S ₂ ⁴	:	154°	11800	Map

S E C R E T

Exhibit 3-B, Page 2 of 18 pages

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery Bumpus Const. No. Tactical No. 3

Type and Caliber 2-3" Pedestal Mounts Element of Group MG 1

Location 117 Place Fort Andrews

Classification: EXISTING. TO BE SHIELDED.

Loca-:Site:Item:Fire:Exhi-:Approx:Type of:Approx:Combined:Ground:Acreeage	tion :No. : No.:Cont: bit :Coordi:Station: # : I.: with :Eleva-:Required	No. : : :Sta : :nates : TYPE :Stations: tion :						
117	1-C	BC ₃	1-I-7	Concrete	115'	CRF ₃	110'	Mil.Res.
117	1-C	CRF ₃	1-I-7	Concrete	115'	BC ₃	110'	Mil.Res.
						CRF		

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line	:	:	:	:
From : To	:	Azimuth :	Length :	Azimuth and length
Station : Station	:	:	:	were determined by:

No Base Lines.

S E C R E T

Exhibit 3-B, Page 3 of 18 pages

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery McCook Const. No. _____ Tactical No. 4
 Type and Caliber 2 - 6" BC (S) Element of Group MG 1
 Location 117 Place Fort Andrews-Pedlocks Island
 Classification: EXISTING. TO BE SHIELDED.

Loca- tion No.	Site : No.	Item : Cont	Fire : bit	Exhi- : Coordi	Approx: Station	Type of : with	Approx: : Eleva-	Combined : Required	Ground : tation	Acreage
No.	:	:	:	Sta :	notes:	type	Stations	:	:	:
117	1-A	B ₄ ¹ S ₄ ¹	1-I-7		2 story concrete Existing	DPF	130.1	None	127'	Military Reserv'n
117	1-B	BC ₄	1-I-7		Brick Concrete Station Existing	DPF	114	P₄	100'	Military Reserv'n
127	1-D	B ₄ ² S ₄ ²	1-I-16		Concrete Manhole Existing	AI	88'	None	86'	Military Reserv'n
129	1-A	B ₄ ³ S ₄ ³	1-I-18		Concrete Station Existing	DPF	80'	AAIS-OP11	78'	Military Reserv'n
130	2-A 1-A	B ₄ ⁴ S ₄ ⁴	1-I-19		3 story cottage	DPF	112'	C ₃ - CP B ₄ ⁴ S ₄ ⁴ 10 10 BC ₁₄	85'	72x135 2-H-8

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line		:	:	:	:
From	To	:	Azimuth	Length	Azimuth and length
Station	Station	:	:	:	were determined by:
B ₄ ¹ S ₄ ¹	B ₄ ² S ₄ ²	:	160.30°	6502.8	Computed from co-ordinates
B ₄ ³ S ₄ ³	B ₄ ⁴ S ₄ ⁴	:	220°	5000	Map

S E C R E T

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery Long Const. No. Tactical No. 5

Type and Caliber 2-16" BC(C) Element of Group G - 1

Location 118 Place Ft. Duvall - Hog Island

Classification: EXISTING. TO BE CASEMATED.

Loca-:Site:Item:Fire:Exhi-:Approx:Type of:Approx:Combined:Ground:Acreeage	tion :No. : No.:Cont: bit :Coordi:Station: H.I.: with :Eleva-:Required	No. : : :Sta.: :nates : :& Type :Stations:tion :
112 2A	B ₅ ¹ S ₅ ¹ 1-I-3	3 story Tower DPF 85' B₁³ S₁³ ^{B₁₂¹ S₁₂¹} 10' ^{B₂² S₂²} 24,020 sq.ft. 2-H-3
114 1D	B ₅ ² S ₅ ² 1-I-5	3 story Cottage AI 59' B₁⁴ S₁⁴ ^{spare} 40' 45 Acres 2-H-5
115 1C	B ₅ ³ S ₅ ³ 1-I-6	2 story Tower Existing DPF 93' B ₁₄ ¹ S ₁₄ ¹ 50' Mil. Res.
120 2A	B ₅ ⁴ S ₅ ⁴ 1-I-11	3 story Cottage Existing DPF 118' B ₁₄ ² S ₁₄ ² 100' Mil. Res. BC5, C1-CP #OP
120 2A	BC 1-I-11	3 story Cottage Existing DPF 126.4 B ₁₄ ² S ₁₄ ² 100' Mil. Res. B ₅ ⁴ S ₅ ⁴ C1-CP #OP
131 4A	B ₅ ⁵ S ₅ ⁵ 1-I-20	3 story Concrete Tower Station DPF 85' B ₁₁ ⁵ S ₁₁ ⁵ 45' 71,000 sq. ft. 2-H-9 G4-OP G4-CP
132 2A	B ₅ ⁶ S ₅ ⁶ 1-I-21	2 story Cottage Existing DPF 101' AAIS-OP13 74' Mil. Res. B ₁₄ ⁴ S ₁₄ ⁴
134 1A	B ₅ ⁷ S ₅ ⁷ 1-I-23	2 story Tower DPF 110' B ₁₄ ⁵ S ₁₄ ⁵ 80' Mil. Res. AAIS

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line		:	:	:	:	:
From	To	:	Azimuth	:	Length	Azimuth and length
Station	Station	:	:	:	:	were determined by:
B ₅ ¹ S ₅ ¹	B ₅ ² S ₅ ²	:	146.5°	:	10,300	Map
B ₅ ² S ₅ ²	B ₅ ³ S ₅ ³	:	153°	:	11,800	Map
B ₅ ³ S ₅ ³	B ₅ ⁴ S ₅ ⁴	:	123°59'	:	12,703	USC & GS
B ₅ ⁴ S ₅ ⁴	B ₅ ⁵ S ₅ ⁵	:	170.5	:	14,300	Map
B ₅ ⁵ S ₅ ⁵	B ₅ ⁶ S ₅ ⁶	:	218°	:	10,600	Map
B ₅ ⁶ S ₅ ⁶	B ₅ ⁷ S ₅ ⁷	:	225°	:	14,000	Map
BC5	B ₅ ¹ S ₅ ¹	:	320.5°	:	34,000	Map
BC5	B ₅ ⁷ S ₅ ⁷	:	204°	:	35,400	Map

S E C R E T

Exhibit 3-B, Page 5 of 18 pages

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery Stevens Const. No. Existing Tactical No. 6

Type and Caliber 2-3" Pedestal Mount Element of Group MG 1

Location 122 Place Fort Strong

Classification: EXISTING. TO BE SHIELDED.

Loca-:Site:Item:Fire:Exhi-:Approx:Type of:Approx:Combined:Ground:Acreege
tion :No. : No.:Cont: bit :Coordi:Station:K.I. : with :Eleva-:Required
No. : : :Sta : :nates : :Type :Stations:tion :

122	1A	BC ₆	1-I-13	Parapet	24'	CRF ₆	20'	Mil.Res.
					A-I			
122	1A	CRF ₆	1-I-13	Parapet	CRF	BC ₆	20'	Mil.Res.
					24'			

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line	:	:	:
From : To	:	Azimuth : Length	: Azimuth and length
Station : Station	:	:	: were determined by:

No Base Lines.

S E C R E T

Exhibit 3-B, Page 6 of 18 pages

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery Basinger Const. No. Tactical No. 7

Type and Caliber 2-3" Pedestal Mount (S) Element of Group MG2

Location 122 Place Fort Strong

Classification: EXISTING. TO BE SHIELDED.

Loca-:Site:Item:Fire:Exhi-:Approx:Type of:Approx:Combined:Ground:Acreage
tion :No. :No. :Cont: bit :Coordi:Station: Alt.: with :Eleva-:Required
No. : : :Sta.: :nates : : Type:Stations: tion :

122 1F BC₇ 1-I-13 Crow's Al CRF₇ 32' Mil.Res.
Nest 34'

122 1F CRF₇ 1-I-13 Crow's CRF BC₇ 32' Mil.Res.
Nest 34'

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line : : :
From : To : Azimuth : Length : Azimuth and length
Station:Station : : : were determined by:

None required.

S E C R E T

Exhibit 3-B, Page 7 of 18 pages

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery Taylor Const. No. Tactical No. 8

Type and Caliber 2-3" Pedestal Mount (S) Element of Group MG2

Location 122 Place Fort Strong

Classification: EXISTING. TO BE SHIELDED *→ Relocated to Ft. Dawes*

Loca- tion No.	Site: No.	Item: Cont:	Fire: bit	Exhi- Coordi:	Approx: Station:	Type of: Type	Approx: Stations:	Combined: Eleva- tion	Ground: Required	Acreage
¹²⁷ 122	1B	BCg	1-I-13			Platform AI <i>CRF on Magazine</i>	CRFg	32'		Mil. Res.
¹²⁷ 122	1B	CRFg	1-I-13			Platform CRF	BCg	32'		Mil. Res.

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line	From	To	Azimuth	Length	Azimuth and length
Station : Station:					were determined by:

None required

S E C R E T

Exhibit 3-B, Page 8 of 18 pages.

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery Williams Const. No. Existing Tactical No. 9

Type and Caliber 3 2-3" Pedestal Mount Element of Group MG1

Location 123 Place Fort Standish - Lovell Island

Classification: EXISTING. TO BE SHIELDED.

Loca-:Site:Item:Fire:Exhi-:Approx:Type of:Approx:Combined:Ground:Acreeage
tion :No. :No. :Cont: bit:Coordi:Station:K.I. : with :Eleva-:Required
No. : : :Sta : : nates: : *T4PC :Stations:tion :

123	1B	BC ₉	1-I-14	Platform A1	CRF ₉	20'	Mil.Res.
				35'			
123	1B	CRF ₉	1-I-14	Platform CRF	BC ₉	20'	Mil.Res.
				35'			

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line	:	:	:	:	:
From	:	To	:	Azimuth	:
Station	:	Station	:	Length	:
				Azimuth and length	:
				were determined by:	:

None required.

S E C R E T

Exhibit 3-B, Page 2 of 18 pages

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery Whipple Const. No. _____ Tactical No. 10

Type and Caliber 2-6" BC (S) Element of Group MG2

Location 123 Place Fort Standish - Lovell Island

Classification: EXISTING. TO BE SHIELDED.

Loca- tion No.	Site: No.	Item: Cont:	Fire: bit	Exhi- :Coordi:	Approx: Station:	Type of: M.I. :	Approx: with	Combined: Eleva-:	Ground: Required	Acreage
No.	:	:Sta :	:	:nates :	:	:& Type:	Stations:	:	:	:

116	1A	B ₁₀ ¹	S ₁₀ ¹	1-I-7	Concrete	106.2	None	100'	Mil. Res.	
					Observing DPF (existing)					
123	1E	B ₁₀ ²	S ₁₀ ²	1-I-14	Stucco	31.8	None	15'	Mil. Res.	
					(existing) A.I.					
123	1H	BC ₁₀		1-I-14	Stucco	50'	P ₁₀	15'	Mil. Res.	
					(existing) A.I.					
123	1D	CRF ₁₀		1-I-14	Concrete	17'	None	13'	Mil. Res.	
					Station CRF (existing)					
127	1I	B ₁₀ ³	S ₁₀ ³	1-I-16	1 story	58'	C ₃ -OP	56'	Mil. Res.	
					stucco DPF (existing)		MG2			
130	2A	B ₁₀ ⁴	S ₁₀ ⁴	1-I-19	3 story	112'	C ₃ -CP	85'	2-H-8	
					cottage DPF	107'	B ₄ ⁴ S ₄ ⁴		72x135	
							BC ₁₄			

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line		:	:	:
From	To	Azimuth	Length	Azimuth and length
Station	Station:	:	:	were determined by:
B ₁₀ ¹	S ₁₀ ¹	B ₁₀ ²	S ₁₀ ²	137.65 6237.9 Computed from co-ordinates
B ₁₀ ³	S ₁₀ ³	B ₁₀ ⁴	S ₁₀ ⁴	194.0 8890. Map

S E C R E T

Exhibit 3-B, Page 10 of 18 pages

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery _____ Const. No. 209 Tactical No. 11
 Type and Caliber 2-6" BC (S) Element of Group G2
 Location 126 Place _____ Outer Brewster
 Classification: TO BE CONSTRUCTED.

Loca- tion No.	Site: No.	Item: Sta	Fire: Cont	Exhi- bit	Approx: Coordi- nates	Type of Station	Approx: Height	Combined: Type	Ground: Eleva- tion	Acreege Required
114	1A	B ₁₁ ¹ S ₁₁ ¹		1-I-5	3 story cottage	DPF	85'	AAIS-OP#4 B ₁₆ ¹ S ₁₆ ¹ G1 (OP) G1 (CP)	52'	2-H-5 45 Acres
115	1D	B ₁₁ ² S ₁₁ ²		1-I-6	3 story cottage	A.I.	40'	B ₁₆ ² S ₁₆ ² C ₁ ² -OP	25'	17 Acres 2-H-6
120	1A	B ₁₁ ³ S ₁₁ ³		1-I-11	Cupola tower	DPF	165'	AAIS-OP#7 B ₁₆ ³ S ₁₆ ³ B ₁₃ ² S ₁₃ ²	125'	200x200 2-H-7
126	1A	B ₁₁ ⁴ S ₁₁ ⁴		1-I-15	2 story concrete Tower	DPF	100'	AAIS-OP#9 BC ₁₁	65'	Mil.Res.
126	1A	BC ₁₁		1-I-15	2 story concrete Tower	A.I.	92'	AAIS-OP#9 B ₁₁ ⁴ S ₁₁ ⁴	65'	Mil.Res.
131	4A	B ₁₁ ⁵ S ₁₁ ⁵		1-I-20	3 story concrete station Tower	A.I.	80'	B ₅ ⁵ S ₅ ⁵ G4-OP G4-CP	45'	71,000 sq. ft. 2-H-9
132	1A	B ₁₁ ⁶ S ₁₁ ⁶		1-I-21	3 story cottage	DPF	75'	B ₁₅ ⁴ S ₁₅ ⁴ B ₁₆ ⁵ S ₁₆ ⁵	40'	9,050 sq.ft. 2-H-10

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line		From Station	To Station	Azimuth	Length	Azimuth and length were determined by:
B ₁₁ ¹	S ₁₁ ¹	B ₁₁ ²	S ₁₁ ²	154°	11,900	Map
B ₁₁ ²	S ₁₁ ²	B ₁₁ ³	S ₁₁ ³	122.5°	13,000	Map
B ₁₁ ³	S ₁₁ ³	B ₁₁ ⁴	S ₁₁ ⁴	190°	4,270	Map
B ₁₁ ⁴	S ₁₁ ⁴	B ₁₁ ⁵	S ₁₁ ⁵	164.5°	10,400	Map
B ₁₁ ⁵	S ₁₁ ⁵	B ₁₁ ⁶	S ₁₁ ⁶	219°	10,500	Map
BC ₁₁		B ₁₁ ¹	S ₁₁ ¹	324.5	26,800	Map
BC ₁₁		B ₁₁ ⁶	S ₁₁ ⁶	192°	18,500	Map

S E C R E T

Exhibit 3-B, Page 11 of 18 pages

S E C R E T

Form 14, Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery _____ Const. No. 105 Tactical No. 12

Type and Caliber 2-16" BC (c) Element of Group G-4

Location 127 Place Fort Dawes

Classification: TO BE CONSTRUCTED.

Loca- tion No.	Site: No.	Item: No.	Fire: Cont:	Exhi- bit Sta	Approx: Coordi: nates	Type of Station Type	Approx: Station Type	Combined: with Stations	Ground: Eleva- tion	Acreage Required
112	1-A	1-A	1	1	1-I-3	2 story tower	105' DPF	AAIS OP#3 B ₂ S ₂ B ₅ S ₅	25'	100x80 2-H-3
114	1-B	B ₁₂ ²	S ₁₂ ²	1-I-5		3 story cottage	77' DPF	BC ₂ #208	45'	45 acres 2-H-5
115	1-B	B ₁₂ ³	S ₁₂ ³	1-I-6		3 story cottage	65' AI	B ₂ ⁴ S ₂ ⁴ G2-CP G2-CP	35'	17 acres 2-H-6
120	3-A	3-A	4	4	1-I-11	2 story cottage	95' AI	Garage B ₁₅ ² S ₁₅ ²	60'	62x125 2-H-7
127	1-B	1-B	BC ₁₂		1-I-16	Concrete Manhole Existing	95' DPF	None	93'	Mil. Res.

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line		From : To		Azimuth	Length	Azimuth and length
Station : Station:						were determined by:
B ₁₂ ¹	S ₁₂ ¹	B ₁₂ ²	S ₁₂ ²	146°	10,850	Map
B ₁₂ ²	S ₁₂ ²	B ₁₂ ³	S ₁₂ ³	154°	11,800	Map
B ₁₂ ³	S ₁₂ ³	B ₁₂ ⁴	S ₁₂ ⁴	124°	12,700	Map
B ₁₂ ⁴	S ₁₂ ⁴	B ₁₂ ⁵	S ₁₂ ⁵	170°	13,300	Map
B ₁₂ ⁵	S ₁₂ ⁵	B ₁₂ ⁶	S ₁₂ ⁶	215°	11,300	Map

S E C R E T

Exhibit 3-B, Page 12 of 18 pages

S E C R E T

Form 14, Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery _____ Const. No. 105 Tactical No. 12

Type and Caliber 2-16" BC (c) Element of Group G-4

Location 127 Place Fort Dawes

Classification: TO BE CONSTRUCTED.

Loca-:Site:Item:Fire:Exhi-:Approx:Type of:Approx:Combined:Ground:Acreage
tion :No. :No. :Cont: bit :Coordi:Station: ~~AK~~.I.: with :Eleva-:Required
No. : : :Sta : : nates: : ~~v~~Type:Stations: tion :

131	1-A ^{2-A}	B ₁₂ ⁵ S ₁₂ ⁵	1-I-20	3 story cottage Tower	80'	AAIS OP#12	35'	4,032 sq. ft. 2-H-9
				AI		B ₁₅ ³ S ₁₅ ³		
						G3-OP GS-CP		
132	3-A	B ₁₂ ⁶ S ₁₂ ⁶	1-I-21	3 story cottage	77'	B ₁₃ ⁵ S ₁₃ ⁵	50'	66,850 sq. ft. 2-H-10
				AI		C ₃ ² - OP		
133A	1-A	B ₁₂ ⁷ S ₁₂ ⁷	1-I-22	Windmill Tower	128'	AAIS-OP#14	80'	100x150 2-H-11
				DPF		B ₁₆ ⁶ S ₁₆ ⁶		
						B ₁₅ ⁵ S ₁₅ ⁵		
134A	1-A	B ₁₂ ⁸ S ₁₂ ⁸	1-I-22	3 story cottage	52'	AAIS-OP#16	20'	100x200 2-H-12
				AI		B ₁₆ ⁷ S ₁₆ ⁷		
135	1-A	B ₁₂ ⁹ S ₁₂ ⁹	1-I-25	3 story cottage	105'	AAIS-OP#17	60'	26,135 sq. ft. 2-H-13
				DPF		B ₁₆ ⁸ S ₁₆ ⁸		
						C ₃ ³ - OP		

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line		:	Azimuth		:	Length	:	Azimuth and length
From	To	:	:	:	:	:	:	were determined by:
Station	Station	:	:	:	:	:	:	:
B ₁₂ ⁶ S ₁₂ ⁶	B ₁₂ ⁷ S ₁₂ ⁷	:	215°	:	10,000	:	Map	
B ₁₂ ⁷ S ₁₂ ⁷	B ₁₂ ⁸ S ₁₂ ⁸	:	250°	:	10,600	:	Map	
B ₁₂ ⁸ S ₁₂ ⁸	B ₁₂ ⁹ S ₁₂ ⁹	:	219°	:	8,700	:	Map	
BC ₁₂	B ₁₂ ¹ S ₁₂ ¹	:	318°	:	42,100	:	Map	
BC ₁₂	B ₁₂ ⁹ S ₁₂ ⁹	:	224	:	47,600	:	Map	

S E C R E T

Exhibit 3-B, Page 13 of 18 pages

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery _____ Const. No. 207 Tactical No. 13

Type and Caliber 2-6" BC (S) Element of Group G3

Location 127 Place Fort Dawes

Classification: TO BE CONSTRUCTED.

Loca- tion No.	Site: No.	Item: Sta	Fire: bit	Exhi- Coordi: nates	Approx: Type of Station	Approx: Station & Type	Combined: with Stations	Ground: Eleva- tion	Acreeage Required
115	1-A	B ₁₃ ¹	S ₁₃ ¹	1-I-6	3 story tower	113' DPF	AAIS OP#5 B ₁₅ ¹ S ₁₅ ¹	40' 2-H-6	17 Acres
							B₁⁵ S₁⁵ <i>Spare</i>		
120	1-A	B ₁₃ ²	S ₁₃ ²	1-I-11	Cupola Tower	165' DPF	AAIS-OP#7 B ₁₆ ³ S ₁₆ ³ B ₁₁ ³ S ₁₁ ³	125' 2-H-7	200x200
127	1-F	B ₁₃ ³	S ₁₃ ³	1-I-16	Concrete Manhole AI Existing	88' None	None	85'	Mil.Res.
127	1-G	BC ₁₃		1-I-16	1 story concrete existing	110' DPF	AAIS-OP10	105'	Mil.Res.
131	5-A	B ₁₃ ⁴	S ₁₃ ⁴	1-I-20	3 story cottage	95' DPF	BC ₁₆	60' 2-H-9	100x200
132	3-A	B ₁₃ ⁵	S ₁₃ ⁵	1-I-21	3 story cottage	85' DPF	B ₁₂ ⁶ S ₁₂ ⁶ C ₃ ² - OP	50' 2-H-10	66,850 sq. ft.

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line						
From Station	To Station	Azimuth	Length	Azimuth and length were determined by:		
B ₁₃ ¹ S ₁₃ ¹	B ₁₃ ² S ₁₃ ²	123°	12,900	Map		
B ₁₃ ² S ₁₃ ²	B ₁₃ ³ S ₁₃ ³	130°	8,200	Map		
B ₁₃ ³ S ₁₃ ³	B ₁₃ ⁴ S ₁₃ ⁴	205°	10,000	Map		
B ₁₃ ⁴ S ₁₃ ⁴	B ₁₃ ⁵ S ₁₃ ⁵	217°	11,000	Map		
BC ₁₃	B ₁₃ ¹ S ₁₃ ¹	306°	21,100	Map		
BC ₁₃	B ₁₃ ⁵ S ₁₃ ⁵	211°	20,900	Map		

S E C R E T

Exhibit 3-B, Page 14 of 18 pages

S E C R E T

Form 14. Annex B

H.D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery Gardner Const. No. Tactical No. 14

Type and Caliber 2-12" BC (C) L.R. Element of Group G4

Location 130 Place Ft. Ruckman - Nahant

Classification: EXISTING. TO BE CASEMATED.

Loca- tion No.	Site: No.	Item: Sta	Fire: Cont	Exhi- bit	Approx: Coordi	Type of: Station	Approx: Eleva	Combined: Ground	Acreege Required
----------------------	--------------	--------------	---------------	--------------	-------------------	---------------------	------------------	---------------------	---------------------

115	1-C	B ₁₄ ¹ S ₁₄ ¹	1-I-6		2 story tower existing	85' DPF	B ₅ ³ S ₅ ³	50'	Mil.Res.
120	2-A	B ₁₄ ² S ₁₄ ²	1-I-11		3 story cottage existing	132' DPF	B ₅ ⁴ S ₅ ⁴ BC ₅ ⁵ C1 - CP #0P	100'	Mil.Res.
130	1-A	BC ₁₄	1-I-19		3 story cottage	120' DPF	B ₁₀ ⁴ S ₁₀ ⁴ C3- CP	85'	72x135 2-H-8
131	2-A	B ₁₄ ³ S ₁₄ ³	1-I-20		3 story cottage Tower	63' AI	B ₁₆ ⁴ S ₁₆ ⁴ BC ₁₅	28'	56,400 sq.ft. 2-H-9
132	2-A	B ₁₄ ⁴ S ₁₄ ⁴	1-I-21		2 story cottage existing	93' DPF	AAIS-OP13 B ₅ ⁶ S ₅ ⁶	74'	Mil.Res.
134	1-A	B ₁₄ ⁵ S ₁₄ ⁵	1-I-23		2 story tower	102' DPF	AAIS-OP15 B ₅ ⁷ S ₅ ⁷	80'	Mil.Res.

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows: :

Base Line	From	To	Azimuth	Length	Azimuth and length
	Station	Station			were determined by:
B ₁₄ ¹ S ₁₄ ¹ B ₁₄ ² S ₁₄ ²			123° 58'	12,706	USC & GS
B ₁₄ ² S ₁₄ ² B ₁₄ ³ S ₁₄ ³			169.5°	13,500	Map
B ₁₄ ³ S ₁₄ ³ B ₁₄ ⁴ S ₁₄ ⁴			215°	11,400	Map
B ₁₄ ⁴ S ₁₄ ⁴ B ₁₄ ⁵ S ₁₄ ⁵			226°	14,000	Map
BC ₁₄ B ₁₄ ¹ S ₁₄ ¹			324.5°	25,600	Map
BC ₁₄ B ₁₄ ⁵ S ₁₄ ⁵			225°	26,500	Map

S E C R E T

Exhibit 3-B, Page 15 of 18 pages

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery _____ Const. No. 206 Tactical No. 15

Type and Caliber 2-6" BC (S) Element of Group G3

Location 131 Place East Point

Classification: TO BE CONSTRUCTED.

Loca- tion No.	Site :No.	Item :Cont	Fire :Sta	Exhi- :bit	Approx :Coordi	Type of :Station	Approx :Eleva	Combined :Stations	Ground :tion	Acreage :Required
115	1-A	B ₁₅ ¹ S ₁₅ ¹	1-I-6		3 story tower	121' DPF	AAIS-OP#5	40'		17 Acres 2-H-6
							B ₁₃ ¹ S ₁₃ ¹			
							B ₁ ⁵ S ₁ ⁵ <i>spare</i>			
120	3-A ^{2-A}	B ₁₅ ² S ₁₅ ²	1-I-11		2 story cottage Garage	87' A.I.	B ₁₂ ⁴ S ₁₂ ⁴	60'		62x125 2-H-7
131	1-A ^{2-A}	B ₁₅ ³ S ₁₅ ³	1-I-20		3 story cottage Tower	85' DPF	AAIS-OP#12	35'		4,032 sq.ft. 2-H-9
							B ₁₂ ⁵ S ₁₂ ⁵			
							G3-OP G3-CP			
131	2-A	BC ₁₅	1-I-20		3 story cottage Tower	63' A.I.	B ₁₆ ⁴ S ₁₆ ⁴	28'		56,400sq.ft. 2-H-9
							B ₁₄ ³ S ₁₄ ³			
132	1-A	B ₁₅ ⁴ S ₁₅ ⁴	1-I-21		3 story cottage	67' A.I.	B ₁₁ ⁶ S ₁₁ ⁶	40'		9,050sq.ft. 2-H-10
							B ₁₆ ⁵ S ₁₆ ⁵			
133A	1-A	B ₁₅ ⁵ S ₁₅ ⁵	1-I-22		Windmill Tower	120' DPF	AAIS-OP#14	80'		100x150 2-H-11
							B ₁₆ ⁶ S ₁₆ ⁶			
							B ₁₂ ⁷ S ₁₂ ⁷			

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line	From Station	To Station	Azimuth	Length	Azimuth and length were determined by:
B ₁₅ ¹ S ₁₅ ¹	B ₁₅ ² S ₁₅ ²	124°	12,800	Map	
B ₁₅ ² S ₁₅ ²	B ₁₅ ³ S ₁₅ ³	170°	13,300	Map	
B ₁₅ ³ S ₁₅ ³	B ₁₅ ⁴ S ₁₅ ⁴	215°	11,200	Map	
B ₁₅ ⁴ S ₁₅ ⁴	B ₁₅ ⁵ S ₁₅ ⁵	213°	10,100	Map	
BC ₁₅	B ₁₅ ¹ S ₁₅ ¹	328°	24,200	Map	
BC ₁₅	B ₁₅ ⁵ S ₁₅ ⁵	215	21,400	Map	

S E C R E T

Exhibit 3-B, Page 16 of 18 pages.

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery _____ Const. No. 104 Tactical No. 16

Type and Caliber 2-16" BC (C) Element of Group G4

Location 131 Place East Point

Classification: TO BE CONSTRUCTED.

Loca- tion No.	Site: No.	Item: No.	Exhi: Cont:	Fire: bit	Exhi: Coordi:	Approx: Station:	Type of: Approx:	Ground: Sta:	Acreeage: Eleva-:	Required Sta:
114	1-A	B ₁₆ ¹ S ₁₆ ¹	1-I-5	3 story cottage	85' DPF	AAIS-OP#4 B ₁₁ ¹ S ₁₁ ¹	52'	45 Acres 2-H-5		
115	1-D	B ₁₆ ² S ₁₆ ²	1-I-6	3 story cottage	45' A.I.	C ₁ ² - OP B ₁₁ ² S ₁₁ ²	25'	17 Acres 2-H-6		
120	1-A	B ₁₆ ³ S ₁₆ ³	1-I-11	Cupola tower	173' DPF	AAIS-OP#7 B ₁₁ ³ S ₁₁ ³ B ₁₃ ² S ₁₃ ²	125'	200x200 2-H-7		
131	2-A	B ₁₆ ⁴ S ₁₆ ⁴	1-I-20	3 story cottage tower	68' A.I.	B ₁₄ ³ S ₁₄ ³ BC ₁₅	28'	56,400sq.ft. 2-H-9		
131	5-A	BC ₁₆	1-I-20	3 story cottage	90' DPF	B ₁₃ ⁴ S ₁₃ ⁴	60'	100x200 2-H-9		
132	1-A	B ₁₆ ⁵ S ₁₆ ⁵	1-I-21	3 story cottage	59' A.I.	B ₁₁ ⁶ S ₁₁ ⁶ B ₁₅ ⁴ S ₁₅ ⁴	40'	9,050sq.ft. 2-H-10		

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line	:	:	:
From : To	:	Azimuth: Length	: Azimuth and length
Station : Station	:	:	: were determined by:

B_{16}^1	S_{16}^1	B_{16}^2	S_{16}^2	154°	11,900	Map
B_{16}^2	S_{16}^2	B_{16}^3	S_{16}^3	123°	12,900	Map
B_{16}^3	S_{16}^3	B_{16}^4	S_{16}^4	170.5°	13,500	Map
B_{16}^4	S_{16}^4	B_{16}^5	S_{16}^5	215°	11,200	Map
B_{16}^5	S_{16}^5	B_{16}^6	S_{16}^6	213°	10,100	Map
B_{16}^6	S_{16}^6	B_{16}^7	S_{16}^7	256°	10,800	Map

S E C R E T

Form 14. Annex B

H. D. of Boston

BATTERY FIRE CONTROL REQUIREMENTS BY BATTERY

Name of Battery _____ Const. No. 104 Tactical No. 16

Type and Caliber 2-16" BC (C) Element of Group G4

Location 131 Place East Point

Classification: TO BE CONSTRUCTED.

Loca- tion No.	Site: No.	Item: Cont:	Fire: Sta	Exhi- bit	Approx: Coordi: nates	Type of: Station:	Approx: A.I.	Combined: with	Ground: Eleva- tion	Acreage Required
133A	1-A	B ₁₆ ⁶ S ₁₆ ⁶	1-I-22		Windmill Tower	136' DPF	AAIS-OP#14	80'	100x150	2-H-11
							B ₁₂ ⁷ S ₁₂ ⁷			
							B ₁₅ ⁵ S ₁₅ ⁵			
134A	1-A	B ₁₆ ⁷ S ₁₆ ⁷	1-I-24		3 story cottage	60' A.I.	AAIS-OP#16	20'	100x200	2-H-12
							B ₁₂ ⁸ S ₁₂ ⁸			
135	1-A	B ₁₆ ⁸ S ₁₆ ⁸	1-I-25		3 story cottage	97' DPF	AAIS-OP#17	60'	26,135sq.ft.	2-H-13
							B ₁₂ ⁹ S ₁₂ ⁹			
							C ₃ ³ - OP			
136	1-A	B ₁₆ ⁹ S ₁₆ ⁹	1-I-26		3 story cottage	130' DPF	AAIS-OP#18	100'	2 Acres	2-H-14
							*B ₂ ¹ S ₂ ¹			
							C ₃ ⁴ - OP			
137	1-A	B ₁₆ ¹⁰ S ₁₆ ¹⁰	1-I-27		2 story cottage	150' DPF	*AAIS-OP#1	125'	100x150	2-H-15
							*B ₂ ² S ₂ ²			

* Harbor Defenses of Portsmouth

With the stations listed above, the BASE LINE DATA for this battery will be approximately as follows:

Base Line		:	:	:	:	:
From	To	:	Azimuth:	Length:	Azimuth and length	
Station	Station	:	:	:	were determined by:	
B ₁₆ ⁷ S ₁₆ ⁷	B ₁₆ ⁸ S ₁₆ ⁸	:	219°	8,700	Map	
B ₁₆ ⁸ S ₁₆ ⁸	B ₁₆ ⁹ S ₁₆ ⁹	:	153°	6,700	Map	
BC ₁₆	B ₁₆ ¹ S ₁₆ ¹	:	330°	36,800	Map	
BC ₁₆	B ₁₆ ⁹ S ₁₆ ⁹	:	218.5°	40,800	Map	
B ₁₆ ⁹ S ₁₆ ⁹	B ₁₆ ¹⁰ S ₁₆ ¹⁰	:	91°	12,800	Map	

S E C R E T

Exhibit 3-B, Page 18 of 18 pages

S E C R E T

Substituted
For Form #15, Annex B

H. D. of Boston

Exhibit 4-B omitted. Fire Control Diagram (Lines).

This exhibit, Fire Control Diagram (Lines), Form #15, is omitted in conformity with instructions contained in paragraph 19, mimeograph, "A Guide for Preparation of Local Board Proceedings", OCCA, dated February 20, 1941.

This Exhibit will be prepared from information listed in Exhibit 25-B, Basic Information for Construction of Fire Control and Communication Diagrams (Form #40), herewith, upon approval of the installations listed.

S E C R E T

Exhibit 4-B, Page 1 of 1 Page

S E C R E T

Substituted
for Form #16, Annex B

H. D. of Boston

Exhibit 5-B (omitted), Communication Diagram (blocks).

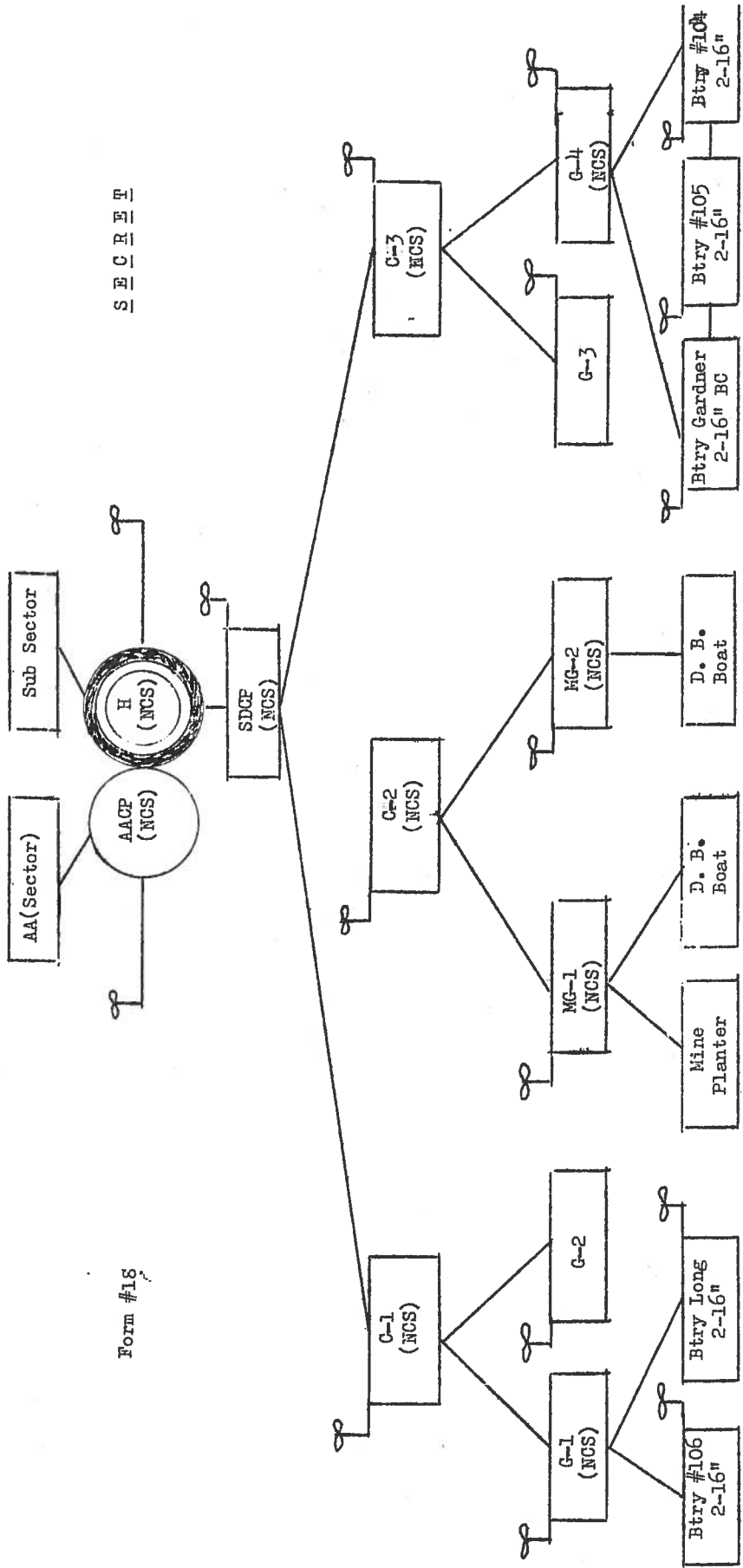
This exhibit, Communication Diagram (blocks), Form #16, is omitted in conformity with instructions contained in paragraph 19, mimeograph "A Guide for Preparation of Local Board Proceedings OCCA, dated February 20, 1941.

This Exhibit will be prepared from information listed in Exhibit 25-B, Basic Information for Construction of Fire Control and Communication Diagrams (Form #140), herewith, upon approval of the installations listed.

S E C R E T

Exhibit 5-B, Page 1 of 1 Page

TACTICAL RADIO NET
HARBOR DEFENSES OF BOSTON



Form #18

SECRET

SECRET

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
Location No. 110, Manomet Point						
3	Site 1A	AAIS OP #1				
	B ₁ ¹	S ₁ ¹ (Const. 106)				
	C ₁ ¹	- OP				
		2 story splinter proof cottage				
		type observing station with				
		AAIS-OP on roof, one A.I. at 92'				
		and one DPF at 100' Remainder of				
		station to be finished as quart-				
		ers. Both instruments must clear				
		tower of Coast Guard station.				
		Elevation of ground 72'.	\$ 7,000	\$ 5,000	\$2,000	
		Contingency	1,400	1,000		\$16,400
		TOTAL	\$ 8,400	\$ 6,000	\$2,000	\$16,400
Location No. 111, Gurnet Point						
2	Site 1A	AAIS OP #2				
	B ₂ ¹	S ₂ ¹ (Const. 208)				
	B₁²	S₁² (Const. 106) C ₁ ¹ -OP				
		1 story, splinter proof cottage				
		with one A. I. at 81' and one DPF				
		at 84' Elevation of ground 62'				
		Platform on roof to be used joint-				
		ly by AAIS observer and Coast				
		Guard lookout Center of platform				
		to contain an all glass booth for				
		C.G. lookout (See Exhibit 2-I-2				
		for suggested design)	\$ 5,000	\$3,500	\$ 200	
		Contingency	1,000	700		\$10,400
		TOTAL	\$ 6,000	\$4,200	\$ 200	\$10,400

S E C R E T

S E C R E T

Form No. 19 Annex B

H. D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 112, Brant Rock</u>						
2	Site 1A	AAIS OP #3				
	B₁₂	S₁₂ (Const. 105)				
	B₂	S₂ (Const. 208)				
		2 story splinter-proof steel tower with AAIS-OP on roof with one DPF at 105' and another at 97'. Both instruments to clear tower at Site No. 2A. Elevation of ground 25'.	\$ 6,000	\$4,000	\$6,350	
		Contingency	1,200	800		\$18,350
1	Site 2A	B ₅ S ₅ (Long) 8 1/2 S 1/2 #105				
		B₃ S₃ (Const. 106) <i>Eliminated</i>				
		2 story splinter-proof steel tower to be constructed in Brant Rock Hotel with one DPF at 85' and one A.I. at 77'				
		Elevation of ground 10'	1,800	1,800	200	3,800*
		*Funds in the amount of \$7,000 for land, and \$8,400 for construction approved in Augmented Expenditure Program. Ref. #13.				
		TOTAL	\$ 9,000	\$6,600	\$6,550	\$22,150
<u>Location No. 113, Flowers Hill</u>						
3	Site 1B	B₁ (Const. 106)				
		One story splinter-proof steel tower, windmill type observing station, with DPF at 110'.				
		Elevation of ground 80'	\$ 4,500	\$ 4,000	None*	
		Contingency	900	800		\$10,200
		*Land charged to Battery #1				
		Constr. #106)				
		TOTAL	\$ 5,400	\$ 4,800	None*	\$10,200

S E C R E T

Exhibit 8-B Page 2 of 22 Pages.

Cost estimate and Priority Guide
FIRE CONTROL - ENGINEER

Prio- rity	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 114. Fourth Cliff</u>						
2	Sito 1A AAIS OP #4					
	B ¹ 11	S ¹ 11 (Const. 209)				
	B ¹ 16	S ¹ 16 (Const. 104)				
	G1-OP					
	G1-CP					
		3 story splinter-proof cottage type observing station with AAIS-OP on roof, with double station for two DPF's at 85' on upper floor and single station for one DPF at 77' on middle floor, lower floor to be occupied by G-1 CP. Elevation of ground 52'.	\$9,000	\$6,000	None**	
		Contingency	1,800	1,200		\$18,000
2	Site 1B BC2 (Const. 208)					
	B ² 12	S ² 12 (Const. 105)				
		3 story splinter-proof cottage type observing station with one DPF at 85' and one DPF at 77' Lower floor not assigned Elevation of ground 45'	7,000	5,000	None**	
		Contingency	1,400	1,000		14,400
2	Site 1D					
	B⁴ 1	S⁴ 1 (Const. 106)				<i>Spare</i>
	B ³ 2	S ³ 2 (Const. 208)				
	B ² 5	S ² 5 (Long)				
		3 story splinter-proof cottage type observing station with one DPF at 75' one A.I. at 67' and one AI at 59'				
		Elevation of ground 40'	\$5,400	\$4,200	None	\$9,600*
		**Land charged to Battery #2 Const. #208				
		*Funds in the amount of \$3,600 for land and \$8,400 for const. approved Augmented Expenditure Program. Ref. #13.				
TOTAL			\$24,600	\$17,400	None	\$42,000

S E C R E T

Form No. 19 Annex B

H. D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>Location 115, Strawberry Point</u>						
2	<u>Site 1A</u>	AAIS OP #5				
	B ₁₅ ¹	S ₁₅ ¹ (Const. 206)				
	B ₁₃ ¹	S ₁₃ ¹ (Const. 207)				
	B₁⁵	S₁⁵ (Const. 106) <i>spare</i>				
		3 story splinter-proof steel tower with AAIS-OP on roof. To have mounts for three DPF's at 121', 113' and 105'. All instruments must clear other stations at this location				
		Elevation of ground 40'	7,000	5,000	*24,800	
		Contingency	1,400	1,000		39,200
2	<u>Site 1B</u>	B ₂ ⁴ S ₂ ⁴ (Const. 208)				
	B ₁₂ ³	S ₁₂ ³ (Const. 105)				
		G2-OP				
		G2-CP				
		3 story splinter-proof cottage with one DPF instrument at 70' on upper floor and two A.I.'s at 65' on middle floor. Lower floor for G-2 CP, Elevation of ground 35'	9,000	6,000	*	
		Instruments must clear station on Site 1D				
		Contingency	1,800	1,200		18,000
1	<u>Site 1C</u>	B ₅ ³ S ₅ ³ (Long)				
	B ₁₄ ¹	S ₁₄ ¹ (Gardner)				
		2 story steel tower now existing. To be splinter-proofed by plating floor and installing heavy shutters lookout windows on sides and rear to be added. Ladder to be replaced by stairway. Stations on sites 1B and 1D must be kept below instruments of this station.	1,000	1,000	*Mil. Res.	
		Contingency	200	200		2,400

S E C R E T

S E C R E T

Form No. 19 Annex B

H. D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item :	Description of Project :	Material :	Labor :	Land :	Total :
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Location 115, Strawberry Point (Cont'd)

2 Site 1D B₁₆² S₁₆² (Const. 104)

C₁² - OP

B₁₁² S₁₁² (Const. 209)

3 story splinter-proof cottage
with one A.I. at 45' on upper
floor and two A.I's at 40' on
middle floor. Lower floor to
be used as quarters.

Elevation of ground 25'	9,000	6,000	*	
Contingency	1,800	1,200		18,000

* All stations to be located on a single tract of land
which includes site of the existing tower 1-C. Excess
land, 17 acres, will be required for housing for detach-
ment at this location.

TOTAL	\$31,200	21,600	24,800	77,600
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Location No. 116, Strawberry Hill

1 Site 1A AAIS OP#6

B₁₀¹ S₁₀¹ (Whipple)

1 story concrete observing
station now existing with
AAIS-OP on roof and equip-
ment installed. Left station
to be assigned to B₁₀¹ S₁₀¹

(Whipple) and to be splinter-proofed.	\$ 750	\$ 750	Mil.Res. 1,800
Contingency	150	150	

TOTAL	900	900	None	1,800
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Location No. 117, Fort Andrews

1 Site 1A B₄¹ S₄¹ (McCook)

2 story stucco observing
station now existing. To
be splinter-proofed. Upper
floor only to be assigned.

	2,500	2,500	Mil.Res.
Contingency	500	500	6,000

S E C R E T

Exhibit 8-B, Page 5 of 22 Pages

..... Pinner.

S E C R E T

Form No. 19 Annex B

H. D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 117, Fort Andrews (Cont'd)</u>						
1	<u>Site 1B</u>	BC ₄ , (McCook) 2 story brick observing station now existing. Upper and lower floors to be splinter-proofed. Contingency	\$ 750 150	750 150	Mil.Res.	1,800
1	<u>Site 1C</u>	CRF3 (Bumpus) Old observing station to have splinter-proof apron for CRF (Btry Bumpus) Contingency	500 100	500 100	Mil.Res.	1,200
1	<u>Site 1G</u>	Existing Fire Control Swbd to be heated, lighted, ventilated and bomb proofed in rear. Contingency	2,000 400	2,000 400	Mil.Res.	4,800
		TOTAL	6,900	6,900	None	13,800

*Pl. relocated to
planning room
Cushing*

Location No. 119, Fort Revere

1	<u>Site 1A</u>	M ₁ ² - R M ₁ ² - L 1 story, double, frame ob- serving station (Existing) assigned to M ₁ ² R and M ₁ ² L. Equipment installed. Stations to be splinter- proofed. Elevation of ground 110' Contingency	2,500 500	2,500 500	Mil.Res.	6,000
1	<u>Site 1E</u>	Existing Fire Control SWBD to be heated, lighted, ventilated & bomb-proofed in rear Contingency	1,800	1,800	Mil.Res.	3,600*
		TOTAL	4,800	4,800	None	9,600

*Funds in the amount of \$960 approved in
Augmented Expenditure Program Ref. #13

S E C R E T

Exhibit 8-B, Page 6 of 22 Pages

S E C R E T

Form No. 19 Annex B

H. D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 120, Point Allerton</u>						
2	<u>Site 1A</u>	AAIS - OP #7				
		B ₁₆ ³ S ₁₆ ³ (Const. 104)				
		B ₁₁ ³ S ₁₁ ³ (Const. 209)				
		B ₁₃ ² S ₁₃ ² (Const. 207)				
		2 story splinter-proof cupola type steel tower with AAIS-OP on roof. To have Mounts for three DPF's at 173', 165' and 165'				
		Elevation of ground 125'	\$6,000	\$4,000	\$22,900	
		Contingency	1,200	800		34,900
1	<u>Site 2A</u>	B ₁₄ ² S ₁₄ ² (Gardner BC5 (Long)				
		C ₁ ³ - OP				
		B ₅ ⁴ S ₅ ⁴ (Long)				
		C ₁ ¹ - CP				
		Existing 3 story concrete cottage type observation station. To be splinter- proofed by installing heavy shutters	250	250	Mil. Res.	
		Contingency	50	50		600
2	<u>Site 3A</u>	B ₁₂ ⁴ S ₁₂ ⁴ (Const. 105)				
		B ₁₅ ² S ₁₅ ² (Const. 206)				
		2 story splinter-proof cottage type observing station. To have 2 A.I.'s at 95' and 87'.				
		Ground elevation 60'	6,000	4,000	6,400	
		Contingency	1,200	800		18,400
		TOTAL	14,700	9,900	29,300	53,900

Exhibit 8-B, Page 7 of 22 Pages

S E C R E T

S E C R E T

Form No. 19 Annex B

H. D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land*	Total
<u>Location No. 121, Fort Warren</u>						
1	<u>Site 1A</u>	MG1 - CP MG1 - OP 1 story concrete observing existing. Station shutters to be splinter-proofed. All equipment installed. Contingency	\$ 500 100	\$ 500 100	Mil.Res.	1,200
1	<u>Site 1D</u>	AAIS OP #8 SD-OP C ¹ ₂ - OP C2 - CP SD - CP 2 story brick observing station exists. 3rd story to be added with AAIS-OP on roof and A.I. at 86'. Covered stairway to be constructed to casemate gallery below. (Seaward Defense CP) Station to be splinter- proofed.	1,800	1,800	Mil.Res.	3,600 *
1	<u>Site 1E</u>	M ¹ ₁ - R M1 - CP & OP M1 - P 1 story double brick obser- ving station with plotting room exists. Entire station to be splinter-proofed. Contingency	1,000 200	1,000 200	Mil.Res.	2,400
1	<u>Site 1G</u>	Fire Control Switchboard (Exists) Existing Fire control Swbd to be heated, lighted, ventilated and bomb-proofed.	3,000	3,000	Mil.Res.	6,000 **
* Funds in the amount of \$4800 approved Augmented Expenditure Program Ref. #13.						
** Funds in the amount of \$960 approved Augmented Expenditure Program Ref. #13.						
TOTAL			\$6,600	\$6,600	None	\$13,200

S E C R E T

Exhibit B, Page 8 of 22 Pages

S E C R E T

Form No. 19 Annex B

H. D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item :	Description of Project :	Material :	Labor :	Land :	Total
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Location No. 122, Fort Strong

1	<u>Site 1F</u>	CRF #7 (Basinger) existing CRF to be provided with splinter-proof apron. Contingency	\$750 150	\$ 750 150	Mil.Res.	1,800
1	<u>Site 1H</u>	Existing Fire Control Switchboard to be heated, ventilated, lighted and bomb-proofed in rear. Contingency	2,000 400	2,000 400	Mil.Res.	4,800
TOTAL			3,300	3,300	None	6,600

Location No. 123, Fort Standish

1	<u>Site 1B</u>	CRF #9 (Williams) Wooden Platform for CRF #9 existing. To be provided with Splinter- proof Apron. Contingency	1,500 300	1,500 300	Mil.Res.	3,600
1	<u>Site 1D</u>	CRF #10 (Whipple) Concrete CRF #10 station existing. To have heavy steel shutter. Contingency	500 100	500 100	Mil.Res.	1,200
1	<u>Site 1E</u>	B ² S ² 10 10 (Whipple) One 2-story wooden observing station. Existing with equip- ment installed. Left station to be splinter-proofed. Contingency	2,500 500	2,500 500	Mil.Res.	6,000
1	<u>Site 1G</u>	M ₂ ² - R M ₂ ² - L M ₂ - P M ₂ - CP 1 story stucco, double observing station, exist- ing with equipment installed. Both stations to be splinter- proofed. Contingency	1,500 300	1,500 300	Mil.Res.	3,600

S E C R E T

Exhibit 8-B, Page 9 of 22 Pages

S E C R E T

Form No. 19 Annex B

H. D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 123, Fort Standish (Cont'd)</u>						
1	<u>Site 1H</u>	BC 10 (Whipple) PR 10 (Whipple) 1 story stucco observing station and plotting room existing. Both Stations to be splinter- proofed. Contingency	1,500 300	1,500 300	Mil.Res.	3,600
1	<u>Site 1J</u>	Existing fire control Swbd to be heated, ventilated, lighted and bomb-proofed in rear.	1,800	1,800	Mil.Res.	3,600 *
* Funds in the amount of \$960 approved Augmented Expenditure Program. Ref. #13.						
TOTAL			10,800	10,800	None	21,600

Location No. 126, Outer Brewster

2	<u>Site 1A</u>	AAIS OP #9 B ₄ S ₄ 11 11 (Constr. #209) BC 11 (Constr. #209) 2 story splinter-proof concrete observing station with AAIS-OP on roof. One DPF at 100' and one A.I. at 92'. Ground elevation 65'. Contingency	\$6,000 1,200	\$4,000 800	Mil.Res.	12,000
TOTAL			\$7,200	\$4,800	None	\$12,000

Location No. 127, Fort Dawes

1	<u>Site 1D</u>	B ₄ S ₄ ² (McCock) Concrete manhole type observing station, exist- ing, one A.I. at 88'. Shutters to be splinter- proofed. Ground elevation 86'. Contingency	250 50	250 50	Mil.Res.	600
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S E C R E T

Exhibit 8-B, Page 10 of 22 Pages

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- crity:	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 127, Fort Dawes (Cont'd)</u>						
1	<u>Site 1E</u>	BC 12 (Constr. #105) Concrete manhole type observing station, exist- ing. One DPF to be mounted at 95'. Shutters to be splinter-proof. Ground elevation 93'. Contingency	\$250 50	\$ 250 50	Mil.Res.	600
2	<u>Site 1F</u>	B ³ ₁₃ S ³ ₁₃ (Const. #207) Concrete manhole type observing station exist- ing. One A.I. at 88'. Shutters to be splinter- proof. Ground elevation 85'. Contingency	250 50	250 50	Mil.Res.	600
2	<u>Site 1G</u>	AAIS-OP #10 BC 13 (Const. #207) One story concrete observing station exist- ing with AAIS-OP on roof. One DPF to be mounted at 110'. Station roof to be splinter-proof, shutters to be installed. Ground elevation 105'. Contingency	500 100	500 100	Mil.Res.	1,200
2	<u>Site 1H</u>	M ¹ ₂ - R M ¹ ₂ - L 1 story concrete double station existing and equipment installed. Both stations roofs and shutters to be splinter-proofed. Elevation of Ground 45'. Contingency	750 150	750 150	Mil.Res.	1,800

S E C R E T

Exhibit 8-B, Page 11 of 22 Pages

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 127, Fort Dawes (Cont'd)</u>						
3	<u>Site 1-I</u>	C ₃ ¹ - OP MG2 - CP & OP B ₃ ³ S ₃ ³ 10 10 (Whipple) 1 story stucco, three station type, existing and equipment installed. Center station to be heavy splinter-proofed. Other two to be splinter- proofed. Ground elevation 50'. Contingency	\$1,500 300	\$1,500 300	Mil.Res.	3,600
1	<u>Site 1J</u>	HMCP Harbor Entrance control post structure Contingency	11,000 2,200	7,000 1,400	Mil.Res.	21,600
TOTAL			17,400	12,600	None	30,000

Location No. 128, Fort Banks

1	<u>Site 1A</u>	HDCP Boston Subsector CP AACP Radio Message Center FCSB PSB Bombproof magazines Bat- tery Lincoln existing. These magazines to be con- verted into C.P. for Boston subsector and Harbor Defense, F.C. and Post Switchboard, AACP, Message Center, and Radio. Magazines listed are not required by Btry Lincoln. To be lighted, heated, ventilated and floored and heavy splinter-proofed.	6,000	6,000	Mil.Res.	12,000*
* Funds in the amount of \$960 approved in Augmented Expenditure Program Ref. #13						
TOTAL			6,000	6,000	None	12,000

S E C R E T

Exhibit 8-B, Page 12 of 22 Pages

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item :	Description of Project :	Material :	Labor :	Land :	Total
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Location No. 129, Fort Heath

1 Site 1A AAIS OP #11

B ₄ ³ S ₄ ³ (McCook)				
1 story concrete observing station existing with equipment installed. Roof to be splinter-proofed and to have an AAIS-OP on roof. Steel window shutters to be installed. Front station only to be used. Elevation 80'.	\$1,000	\$1,000	Mil.Res.	
Contingency	200	200		2,400
TOTAL	1,200	1,200	None	2,400

Location No. 130, Fort Ruckman

1 Site 1A BC 14 (Gardner)

B ₄ ⁴ S ₄ ⁴ (McCook)				
B ₁₀ ⁴ S ₁₀ ⁴ (Whipple)				
C3 - CP				
3 story splinter-proof cottage. Upper station at elevation 120' and 2 middle stations at elevation 112' all to have DFT's. Lower station not assigned. Ground elevation 85'.	7,000	5,000	3,600	
Contingency	1,400	1,000		18,000

Site 2A Existing Fire Control switchboard to have changes in heating, ventilating, and lighting.

	None	None	Mil.Res.	None*
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* Fund in the amount of \$960 approved in Augmented Expenditure Program Ref. #13.

TOTAL	8,400	6,000	3,600	18,000
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S E C R E T

Exhibit 8-B, Page 13 of 22 Pages

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 131, East Point</u>						
2	<u>Site 2A</u>	AAIS OP #12				
		B ³ S ³ (Constr. #206)				
		15 15				
		B ⁵ S ⁵ (Constr. #105)				
		12 12				
		G3-OP				
		G3-CP				
		<i>Tower</i> 3 story splinter-proof				
		cottage with AAIS-OP on				
		roof. Upper station with				
		DPF at 85'. 2 stations				
		in middle floor both with				
		AI's at 80'. Lower station				
		unassigned. Middle floor				
		should be of sufficient				
		elevation to give unob-				
		structed view by trees				
		and houses. Ground eleva-				
		tion 35'.	\$7,000	\$5,000	\$3,500	
		Contingency	1,400	1,000		\$17,900
1	<u>Site 2A</u>	B ⁴ S ⁴ (Constr. #104)				
		16 16				
		B ³ S ³ (Gardner)				
		14 14				
		BC 15 (Constr. #206)				
		<i>Tower</i> 3 story splinter-proof				
		cottage with 3 stations				
		one upper in rear at				
		elevation 68' and 2 middle				
		in front at elevation 63'.				
		Lower to be used for				
		quarters. All stations to				
		have AI's. Ground Eleva-				
		tion 28'.	9,000	6,000	38,000	
		Contingency	1,800	1,200		56,000

*This structure on
site with 2-A*

S E C R E T

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 131, East Point (Cont'd)</u>						
1	<u>Site 4A</u>	B ⁵ ₅ S ⁵ ₅ (Long) B ⁵ ₁₁ S ⁵ ₁₁ (Constr. #209) G4-OP G4-CF Existing colonial house. Construct new 3 story splinter-proof front. Upper station rear with DPF at 85'. Two middle stations at 80' both with AI's. Elevation of ground 45'.				
			\$1,000	\$1,600	\$20,000	\$22,600*
2	<u>Site 5A</u>	B ⁴ ₁₃ S ⁴ ₁₃ (Constr. #207) BC 16 (Constr. #10 ⁴ ₇) 3 story splinter-proof cottage upper rear at elevation of 95' and middle front at 90'. Both DPF's Lower quarters. Elevation of ground 60'. Contingency				
			9,000	6,000	9,100	
			1,800	1,200		27,100
* Funds in the amount of \$10,000 for construction approved in Augmented Expenditure Program, Ref. #13 \$15,400 approved for land used to purchase part of site for Btry. #104.						
TOTAL			31,000	22,000	70,600	123,600

S E C R E T

Exhibit 8-B, Page 15 of 22 Pages

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>Location No. 132, Marblehead Neck</u>						
2	<u>Site 1A</u>	B ⁶ ₁₁ S ⁶ ₁₁ (Constr. #209)				
		B ⁴ ₁₅ S ⁴ ₁₅ (Constr. #206)				
		B ⁵ ₁₆ S ⁵ ₁₆ (Constr. #104)				
		3 story frame house now exists on site. To be altered for 3 stations. Upper station with DPF at 75' and middle and lower stations with AI's at 67' and 59'. Tower should be built in house and stations to be located in tower. Tower should be splinter-proofed. Ground Elevation 40'.				
		Contingency	\$6,000	\$6,000	\$15,550	\$29,950
1	<u>Site 2A</u>	AAIS OP #13				
		B ⁶ ₅ S ⁶ ₅ (Long)				
		B ⁴ ₁₄ S ⁴ ₁₄ (Gardner)				
		2 story cottage without splinter-proofing under construction. *				
		To be splinter-proofed.	2,000	2,000	Nil.Res.	4,000
2	<u>Site 3A</u>	B ⁵ ₁₃ S ⁵ ₁₃ (Constr. #207)				
		B ⁶ ₁₂ S ⁶ ₁₂ (Constr. #105)				
		C ² ₃ - OP				
		3 story splinter-proof cottage type observing station. Upper station with DPF at 85' and middle and lower station with AI's at 77' and 69'. Ground Elevation 50'.	7,000	5,000	23,000	
		Contingency	1,400	1,000		37,400
* Approved Augmented Expenditure Program, Ref. #13.						
TOTAL			17,600	15,200	38,550	71,350

S E C R E T

Exhibit 8-B, Page 16 of 22 Pages

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
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Location No. 133A, Gales Point

2	<u>Site 1A</u>	AAIS-OP #14				
		B ⁶ S ⁶ _{16 16} (Constr. #104)				
		B ⁷ S ⁷ _{12 12} (Constr. #105)				
		B ⁵ S ⁵ _{15 15} (Constr. #206)				
		3 story windmill type splinter-proof tower with AAIS OP on roof. Upper, middle, and lower floors to have DPF's at 136', 128' and 120' respectively. Trees and two houses offer obstruction to view; therefore tower must be high enough to have clear view. Ground Elevation 80'.	\$7,500	\$5,000	\$8,500	
		Contingency	1,500	1,000		\$23,500
		TOTAL	9,000	6,000	8,500	23,500

Location No. 134, Coolidge Point

1	<u>Site 1A</u>	AAIS-OP #15				
		B ⁷ S ⁷ _{5 5} (Long)				
		B ⁵ S ⁵ _{14 14} (Gardner)				
		2 story splinter-proof steel tower with DPF's at 102' and 110' with AAIS-OP on roof. Ground Elevation 80'.	None	None	None	None *
		* Funds in the amount of \$15,000 for Land and \$8,700 for Construction approved in Augmented Expenditure Program, Ref. #13.				
		TOTAL	None	None	None	None

S E C R E T

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Priority:	Item :	Description of Project :	Material :	Labor :	Land :	Total
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Location No. 134A, Eastern Point

3 Site 1A AAIS-OP #16

B⁷ S⁷ (Constr. #104)
16 10 10 16

B⁸ S⁸ (Constr. #105)
12 12

3 story splinter-proof
cottage type observing
station with AAIS OP on
roof. Upper and middle
floors to have AI's at
60' and 52'. Lower floor
to be used as quarters.
Ground Elevation 20'.

Contingency	\$9,000	\$6,000	\$4,700	\$22,700
	1,800	1,200		

TOTAL	10,800	7,200	4,700	22,700
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Location No. 135, Emerson Point

3 Site 1A AAIS-OP #17

B⁹ S⁹ (Constr. #105)
12 12

B⁸ S⁸ (Constr. #104)
16 16

C³ - OP
3

Brick house with tower
existing on site. Tower
should be extended for
the installation of sta-
tions with AAIS OP on
roof. Upper and middle
stations with DPF's at 105'
and 97' and lower station
with AI at 89'. Tower must
be splinter-proofed. Ground
Elevation at 60'.

Contingency	4,000	4,000	8,300	17,900
	300	800		

TOTAL	4,800	4,800	8,300	17,900
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S E C R E T

Exhibit 8-B, Page 18 of 22 Pages

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
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Location No. 136, Halibut Point

3 Site 1A AAIS-OP #18

B₁₆⁹S₁₆⁹ (Constr. #104)

* B₂¹S₂¹ (Constr. #103)

C₃⁴ - OP

3 story splinter-proof
cottage observing station
with AAIS OP on roof.
Upper and middle station
with DPF's at 130' and
122'. Lower station with
AI at 114'. Remainder of
station to be quarters.
Top station should be
high enough to clear house
on right flank. Ground
Elevation 100'.
Contingency

\$ 9,000	\$6,000	\$5,100	
1,800	1,200		\$23,100

* H. D. of Portsmouth.

TOTAL	10,800	7,200	5,100	23,100
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Location No. 137, Castle Hill

3 Site 1A *AAIS-OP #1

B₁₆¹⁰S₁₆¹⁰ (Constr. #104)

* B₂²S₂² (Constr. #103)

2 story splinter-proof
observing station with
AAIS-OP on roof, and a
double observation station
on upper floor both with
DPF's at 150'. Lower floor
to be used for quarters.
Elevation of ground 125'.

Land and construction
charged to H. D. of
Portsmouth.

* H. D. Portsmouth.

S E C R E T

Exhibit 8-B, Page 19 of 22 Pages

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item	Description of Project	Material	Labor	Land	Total
<u>ESTABLISHMENT OF DATUM POINTS</u>						
		Plum Island, Coast Guard	\$ 300	\$ 800	None	\$ 1,100
		Light House, Straitmouth Island	300	800	None	1,100
		Light House, Thatcher Island	300	800	None	1,100
		Light House, Eastern Point	250	750	None	1,000
		East Gloucester Light	150	150	None	300
		Coolidge Point	200	250	None	450
		Marblehead Light	100	100	None	200
		Great Pig Rock	250	250	None	500
		Shag Rock, Nahant	250	250	None	500
		Lynn Beach, 155	200	200	None	400
		East Point, Nahant	200	200	None	400
		Spouting Horn	200	200	None	400
		Graves Light	150	150	None	300
		Green Island	150	150	None	300
		Outer Brewster, South	250	250	None	500
		Outer Brewster, West	250	250	None	500
		Outer Brewster, Triangulation	250	250	None	500
		Calf Island	250	250	None	500
		Williams, CRF	150	150	None	300
		Whipple, CRF	150	150	None	300
		Whipple, DP & BC	150	150	None	300
		McCook, CRF	150	150	None	300
		Bumpus, CRF	150	150	None	300
		Deer Island, B ³ ₁₆ Lincoln	100	100	None	200
		Deer Island B ³ ₁₇ Kellogg	100	100	None	200
		Deer Island B ³ ₁₈ Winthrop	100	100	None	200
		Banks, DP Lincoln	150	150	None	300
		Banks, DP Kellogg	150	150	None	300
		Cedar Point	200	200	None	400
		Third Cliff, Scituate	200	200	None	400
		Fourth Cliff, Scituate	200	200	None	400
		Brant Rock, Tower	100	100	None	200
		Brant Rock, Datum	250	250	None	500
		Brant Rock, Seawall Datum	200	200	None	400
		Gurnet Light, Datum	200	200	None	400
		Boston Light	150	150	None	300
		Bassinger, CRF #14	150	150	None	300
		Stevenson, DP	150	150	None	300

S E C R E T

S E C R E T

Form No. 19 Annex B

H.D. of Boston

Cost estimate and Priority Guide

FIRE CONTROL - ENGINEER

Pri- ority:	Item :	Description of Project :	Material :	Labor :	Land* :	Total
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ESTABLISHMENT OF DATUM POINTS (Cont'd)

Cushing-Whitman, DP	\$ 150	\$ 150	None	\$ 300
110' Chimney, Rocky Point	250	750	None	1,000
Tank, Menomet Point	250	750	None	1,000
Standpipe, Sagamore Beach	250	750	None	1,000
Pilgrims Monument, Provincetown	0	0	None	0
Coast Guard, Town Beach	250	750	None	1,000
	8,300	12,350	None	20,650
Contingencies	1,660	2,470	None	4,130
TOTAL	9,960	14,820	None	24,780

NOTE:

The Datum points will be of types varying from painting existing structures to establishing new structures. In some cases a third order survey is required. Estimates are based on average costs.

S E C R E T

S E C R E T

Form No. 19. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - ENGINEER (SUMMARY)

Loc.:		:	:	:	:	:
No.:	Place	:Exhibit:	Material	: Labor	: Land	: Total
110	Manomet Point	8-B-1	\$ 8,400	\$ 6,000	\$ 2,000	\$ 16,400
111	Gurnet Point	8-B-1	6,000	4,200	200	10,400
112	Brant Rock	8-B-2	9,000	6,600	6,550	22,150
113	Flowers Hill	8-B-2	5,400	4,800	None	10,200
114	Fourth Cliff	8-B-3	24,600	17,400	None	42,000
115	Strawberry Point	8-B-5	31,200	21,600	24,800	77,600
116	Strawberry Hill	8-B-5	900	900	None	1,800
117	Fort Andrews	8-B-6	6,900	6,900	None	13,800
119	Fort Revere	8-B-6	4,800	4,800	None	9,600
120	Point Allerton	8-B-7	14,700	9,900	29,300	53,900
121	Fort Warren	8-B-8	6,600	6,600	None	13,200
122	Fort Strong	8-B-9	3,300	3,300	None	6,600
123	Fort Standish	8-B-10	10,800	10,800	None	21,600
126	Outer Brewster	8-B-10	7,200	4,800	None	12,000
127	Fort Dawes	8-B-12	17,400	12,600	None	30,000
128	Fort Banks	8-B-12	6,000	6,000	None	12,000
129	Fort Heath	8-B-13	1,200	1,200	None	2,400
130	Fort Ruckman	8-B-13	8,400	6,000	3,600	18,000
131	East Point	8-B-15	31,000	22,000	70,600	123,600
132	Marblehead Neck	8-B-16	17,600	15,200	38,550	71,350
133A	Gales Point	8-B-17	9,000	6,000	8,500	23,500
134	Coolidge Point	8-B-17	None	None	None	None
134A	Eastern Point	8-B-18	10,800	7,200	4,700	22,700
135	Emerson Point	8-B-18	4,800	4,800	8,300	17,900
136	Halibut Point	8-B-19	10,800	7,200	5,100	23,100
137	Castle Hill	8-B-19	H. D. of Portsmouth			
	Datum Points	8-B-21	9,960	14,820	None	24,780
TOTAL			\$266,760	\$211,620	\$202,200	\$680,580

Note.-- Above costs do not include funds already approved in Augmented Expenditure Program, 1941.

S E C R E T

Exhibit 8-B, Page 22 of 22 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>LOCATION NO. 110 - MANOMET POINT</u>							
3		1-A	AAIS-OP#1				
			<u>Ordnance:</u> 1 Field Glasses	70			\$ 70
3		1-A	C ₁ -OP				
			<u>Signal:</u> 3 Tel Box EE-91 3 H & C Set HS-17A 1 Bell TI MC 153 1 Tel. Wall Contingency		90 75 11 20 40	50	286
			<u>Ordnance:</u> 1 Az Inst. M-1910-AI	1125			1125
Total, Location No. 110							\$1481
<u>LOCATION NO. 111 - GURNET POINT</u>							
2		1-A	AAIS-OP#2				
			<u>Ordnance:</u> 1 Field Glasses	70			\$ 70
Total, Location No. 111							\$ 70
<u>LOCATION NO. 112 - BRANT ROCK</u>							
2		1-A	AAIS-OP#3				
			<u>Ordnance:</u> 1 Field Glasses	70			\$ 70
Total, Location No. 112							\$ 70
<u>LOCATION NO. 113 - FLOWERS HILL</u>							
3		1-A	F. C. Switchboard Room 16" Btry. #1				
			<u>Signal:</u> 1 Panel, Power BD-65 1 Swbd., BD-74J (80 phones) 1 Swbd., BD-75 1 Battery, Storage, 30V 1 Rectifier Electron for charging batteries		330 1300 125 150 75		

S E C R E T

Exhibit 9-B, Page 1 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>LOCATION NO. 113 - FLOWERS HILL (cont'd)</u>							
3		1-A	F. C. Switchboard Room 16" Btry. #1 (cont'd)				
			1 Time Interval Apparatus EE-86		300		
			2 Motor Generators for charging 30V battery		484		
			2 Aux. Elec. Gen.		6000 (cost estimated)		
			1 Telephone, Wall Post System		20		
			2 Tel. Box EE-91		50		
			2 Hand Set TS-12A		22		
			Contingency		1800	500	\$11,156
			<u>Ordnance:</u> 2 Recorders TI	55			55
			Total, Location No. 113				\$11,211
<u>LOCATION NO. 114 - FOURTH CLIFF</u>							
1		1-A	AAIS-OP#14				
			<u>Ordnance:</u> 1 Field Glasses	70			\$ 70
1		1-A	G ₁ -CP' & OP				
			<u>Signal:</u> 6 Tel. Box EE-91		180		
			4 H & C Set HS-17A	100	100		
			2 Hand Set TS-12A		24		
			1 Bell TI MC-153		11		
			1 Telephone, Wall		20		
			1 Swbd., BD-95		300		
			1 Radio Marine Tel.		500		
			Contingency		130	60	1,325
			<u>Ordnance:</u> 1 Az. Inst.				
			M-1910-AI	1125			
			2 Recorders TI	55			1,180
		1-C	F. C. Switchboard Room 6" Battery				
			<u>Signal:</u> 1 Swbd., BD-74J (80 phones)		1300		
			1 Swbd., BD-75		125		

S E C R E T

Exhibit 9-B, Page 2 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
LOCATION NO. 114 - FOURTH CLIFF (cont'd)							
2		1-C	F. C. Switchboard Room 6" Battery (Cont'd)				
			1 Panel Power		330		
			1 Btry. Storage 30V		150		
			2 Motor Generators		482		
			1 Rectifier Electron		75		
			1 Time Interval Apparatus		300		
			1 Aux. Elec. Generator (cost estimated)		3000		
			1 Tel. Wall Post		20		
			2 Tel. Box EE-91		50		
			2 Hand Set TS-12A		22		
			1 Swbd., P.B.X. (50 lines) Post System		500		
			Contingency		1270	500	\$ 8,124
			<u>Ordnance:</u>				
			2 Recorders TI	55			55
Total, Location No. 114							\$10,754
LOCATION NO. 115 - STRAWBERRY POINT							
2		1-A	AAIS-OP#5				
			<u>Ordnance:</u>				
			1 Field Glasses	70			70
2		1-B	G ₂ -CP & OP				
			<u>Signal:</u>				
			6 Tel. Box EE-91		180		
			4 H & C Set HS-17A		100		
			2 Hand Sets TS-12A		24		
			1 Bell TI MC-153		11		
			1 Telephone Desk		20		
			1 Swbd., BD-95		300		
			1 Radio Marine Tel.		500		
			Contingency		130	60	1,325
			<u>Ordnance:</u>				
			1 Az. Inst. M-1910-AI	1125			
			2 Recorders TI	55			1,180
2		1-D	G ₁ ² -OP				
			<u>Signal:</u>				
			2 Tel. Box EE-91		60		
			2 H & C Sets HS-17A		50		
			1 Bell TI, MC-153		11		

S E C R E T

Exhibit 9-B, Page 3 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>LOCATION NO. 115 - STRAWBERRY POINT (cont'd)</u>							
2		1-D	C ₁ ² -OP (cont'd)				
			<u>Signal (cont'd):</u>				
			1 Telephone, Wall		20		
			Contingency		30	60	231
			<u>Ordnance:</u>				
			1 Az. Inst. M-1910-AI	1125			1,125
			Total, Location No. 115				\$3,931
<u>LOCATION NO. 116 - STRAWBERRY HILL</u>							
1		1-A	AAIS-OP #6				
			<u>Ordnance:</u>				
			1 Field Glasses	70			\$ 70
			Total, Location No. 116				\$ 70
<u>LOCATION NO. 119 - FORT REVERE</u>							
1		1-A	M ₁ ² R & M ₁ ² L				
			<u>Signal:</u>				
			Equipment existing and installed.				
			<u>Ordnance:</u>				
			Equipment existing and installed.				
<u>LOCATION NO. 120 - POINT ALLERTON</u>							
2		1-A	AAIS-OP#7				
			<u>Ordnance:</u>				
			1 Field Glasses	70			\$ 70
1		2-A	C ₁ -CP & OP				
			<u>Signal:</u>				
			1 Swbd. BD-95		300		
			1 Radio Marine Tel.		500		
			Contingency		160	60	1,020
			Total, Location No. 120				\$1,090
<u>LOCATION NO. 121 - FORT WARREN</u>							
1		1-A	MG1-CP				
			<u>Signal:</u>				
			1 Telephone		20		
			1 Swbd. BD-95		300		
			Contingency		65	60	445

S E C R E T

Exhibit 9-B, Page 4 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
LOCATION NO. 121 - FORT WARREN (Cont'd)							
1		1-A	MGI-CP (cont'd)				
			Ordnance: 2 Recorders TI	55			\$ 55
1		1-D	AAIS-CP#8				
			Ordnance: 1 Field Glasses	70			70
1		1-D	SD-CP & OP				
			Signal: 9 Tel. Box EE-91 7 H & C Set HS-17A 2 Hand Sets TS-12A 1 Bell TI, MC-153 1 Telephone Desk 1 Swbd., BD-95 2 Teletypewriters (to be leased) 1 Radio Marine Tel. Contingency		270 175 24 11 20 300 500 260		1,680
			Ordnance: 1 Az. Inst. M-1910-AI	1125			1,125
1		1-D	C ₂ -CP & OP				
			Signal: 1 Telephone, Desk 1 Swbd. BD-95 1 Radio Marine Tel. Contingency		20 300 500 160		1,040
1		1-E	MI-CP				
			Signal: 1 Swbd. BD-105 1 Telephone, Wall Contingency		230 20 50	60	360
			Ordnance: 2 Recorders TI	55			55
Total, Location No. 121							\$4,830
LOCATION NO. 126 - OUTER BREWSTER							
2		1-A	AAIS-CP#9				
			Ordnance: 1 Field Glasses	70			70

S E C R E T

Exhibit 9-B, Page 5 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>LOCATION NO. 126 - OUTER BREWSTER (cont'd)</u>							
2		1-B	Btry. #11 F. C. Swbd. Room 1-6" Btry. (Construction #209)				
			<u>Signal:</u>				
			1 Panel Power BD-65		330		
			1 Swbd. BD-78 (cost estimated)		1000		
			1 Swbd. BD-75		125		
			1 Btry. Storage, 30V		150		
			1 Rectifier Electron		75		
			1 TI Apparatus		300		
			2 Motor Generators for charging 30V battery		484		
			1 Aux. Elec. Generator (cost estimated)		3000		
			1 Telephone Wall Post		20		
			2 Tel. Box EE-91		60		
			2 Handsets TS-12A		24		
			Contingency		1120	1000	\$7,688
			<u>Ordnance:</u>				
			2 Recorders TI	55			55
			Total, Location No. 126				\$7,813
<u>LOCATION NO. 127 - FORT DAWES</u>							
3		1-B	F.C. Sbd. for 6" & 16" Battery				
			<u>Signal:</u>				
			1 Panel Power BD-65		330		
			1 Swbd. BD-74J		1300		
			1 Swbd. BD-75		125		
			1 Battery Storage, 30V		150		
			1 Rectifier Electron		75		
			1 TI Apparatus		300		
			2 Motor Generators for charging batteries		484		
			1 Aux. Elec. Generator		3000		
			1 Telephone, Wall		20		
			2 Tel Box EE-91		50		
			2 Handsets TS-12A		24		
			Contingency		1160	1000	8,018
			<u>Ordnance:</u>				
			2 Recorders, TI	55			55

S E C R E T

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
LOCATION NO. 127 - FORT DAWES (cont'd)							
2		1-G	AAIS-OP#10				
			Ordnance:				
			1 Field Glasses	70			\$ 70
3		1-I	C ₃ -OP				
			Signal:				
			2 Tel Box EE-91		60		
			2 H & C Sets HS-17A		50		
			1 Telephone, Wall		20		
			Contingency		26	60	216
3		1-I	C ₃ -OP				
			Ordnance:				
			1 Az. Inst. M-1910-AI	1125			1,125
1		1-J	HECP				
			Signal:				
			6 Tel. Box EE-91		180		
			6 H & C Sets HS-17A		150		
			1 Telephone, Wall		20		
			Contingency		70	60	480
			Ordnance:				
			1 Az. Inst. M-1910-AI	1125			1,125
Total, Location No. 127							\$11,089
LOCATION NO. 128 - FORT BANKS							
1		1-A	HD-CP & AACF				
			Signal:				
			2 Teletypewriters (leased)				
			11 Tel. Box EE-91		330		
			6 H & C Sets HS-17A		150		
			5 Hand Sets TS-12A		60		
			1 Telephone, Desk		20		
			3 Swbd. BD-95		900		
			1 Radio Marine Tel.		500		
			Contingency		400	500	2,860
Total, Location No. 128							\$2,860
LOCATION NO. 129 - FORT HEATH							
1		1-A	AAIS-OP#11				
			Ordnance:				
			1 Field Glasses	70			70
Total, Location No. 129							\$70

S E C R E T

Exhibit 9-B, Page 7 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total	
					Equip.	Labor		
<u>LOCATION NO. 130 - FORT RUCKMAN</u>								
1		1-A	G3-CP					
			<u>Signal:</u>					
			6 Tel. Box EE-91		180			
			4 H & C Sets HS-17A		100			
			2 Hand Sets TS-12A		24			
			1 Telephone, Desk		20			
			1 Swbd. BD-95		300			
			1 Radio Marine Tel.		500			
			Contingency		230	120	\$1,474	
			<u>Ordnance:</u>					
			2 Recorders TI	55			55	
			Total, Location No. 130					\$1,529
<u>LOCATION NO. 131 - EAST POINT</u>								
2		1-A	AAIS-CP#12					
			<u>Ordnance:</u>					
			1 Field Glasses	70			70	
2		1-A	G3-CP & OP					
			<u>Signal:</u>					
			6 Tel. Box EE-91		180			
			4 H & C Sets HS-17A		100			
			2 Hand Sets TS-12A		24			
			1 Telephone, Wall		20			
			1 Swbd. BD-105		230			
			Contingency		120	60	734	
			<u>Ordnance:</u>					
			1 Az. Inst. M-1910-AI	1125				
			2 Recorders, TI	55			1,180	
3		3-B	F. C. Swbd. for 6" and 16" Batteries					
			<u>Signal:</u>					
			1 Panel Power BD-65		330			
			1 Swbd. BD-74J		1300			
			1 Swbd. BD-75		125			
			1 Btry. Storage, 30V		150			
			1 Rectifier Electron		75			
			1 TI Apparatus		300			
			2 Motor Generators for charging batteries		484			
			1 Aux. Elec. Generator		3000			
			1 Telephone, Wall		20			
			2 Tel. Box EE-91		50			
			2 Hand Sets TS-12A		24			
			Contingency		1160	1000	8,018	

S E C R E T

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
3		3-B	F.C.Swbd. for 6" and 16" Batteries (cont'd)				
			<u>Ordnance:</u> 2 Recorders, TI	55			55
1		4-A	G4-CP & OP				
			<u>Signal:</u> 7 Tel. Box EE-91 5 H & C Sets HS-17A 2 Hand Sets TS-12A 1 Telephone, Wall Contingency		210 125 24 20 76	60	515
			<u>Ordnance:</u> 1 Az. Inst. M-1910-AI 2 Recorders, TI	1125 55			1,180
			Total, Location No. 131				\$11,752 \$11,682
<u>LOCATION NO. 132 - MARBLEHEAD NECK</u>							
1		2-A	AAIS-OP#13				
			<u>Ordnance:</u> 1 Field Glasses	70			70
2		3-A	C ₃ -OP				
			<u>Signal:</u> 2 Tel. Box EE-91 2 H & C Sets HS-17A 1 Telephone, Wall Contingency		60 50 20 30	60	220
			<u>Ordnance:</u> 1 Az. Inst. M-1910-AI	1125			1,125
			Total, Location No. 132				\$1,415
<u>LOCATION NO. 133A - GALES POINT</u>							
2		1-A	AAIS-OP#14				
			<u>Ordnance:</u> 1 Field Glasses	70			70
			Total, Location No. 133A				\$70
<u>LOCATION NO. 134 - COOLIDGE POINT</u>							
1		1-A	AAIS-OP#15				
			<u>Ordnance:</u> 1 Field Glasses	70			70
			Total, Location No. 134				\$70

S E C R E T

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by LOCATION

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>LOCATION NO. 134A - EASTERN POINT</u>							
3		1-A	AAIS-OP#16				
			Ordnance:				
			1 Field Glasses	70			70
			Total, Location No. 134A				\$70
<u>LOCATION NO. 135 - EMERSON POINT</u>							
3		1-A	AAIS-OP#17				
			Ordnance:				
			1 Field Glasses	70			70
3		1-A	C ³ ₃ -OP				
			Signal:				
			2 Tel Box EE-91		60		
			2 H & C Sets HS-17A		50		
			1 Telephone, Wall		20		
			Contingency		30	60	220
			Ordnance:				
			1 Az. Inst. M-1910-AI	1125			1,125
			Total, Location No. 135				\$1,415
<u>LOCATION NO. 136 - HALIBUT POINT</u>							
3		1-A	AAIS-OP#18				
			Ordnance:				
			1 Field Glasses	70			70
3		1-A	C ⁴ ₃ -OP				
			Signal:				
			2 Tel Box EE-91		60		
			2 H & C Sets HS-17A		50		
			1 Telephone, Wall		20		
			Contingency		30	60	220
			Ordnance:				
			1 Az. Inst. M-1910-AI	1125			1,125
			Total, Location No. 136				\$1,415
			Total, Signal				\$57,655
			Total, Ordnance				15,420
			Grand Total				\$73,075

S E C R E T

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #1 (CONSTR. #106) 2-16" BC, LOCATION NO. 113 - FLOWERS HILL							
3		1-B	BC Station				
			<u>Signal:</u>				
			5 Tel. Box EE-91		150		
			3 H & C Sets HS-17A		75		
			2 Hand Sets TS-12A		24		
			1 Swbd. BD-105		230		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		100	60	670
			<u>Ordnance:</u>				
			4 Recorders, TI	110			
			1 DPF	4500			
			1 Az. Inst.	1125			5,735
3		1-A	Plotting Room				
			<u>Signal:</u>				
			15 Tel. Box EE-91		450		
			11 H & C Set HS-17A		275		
			4 Hand Sets TS-12A		48		
			1 Bell, TI		11		
			1 Swbd. BD-95		300		
			1 Radio (SCR-281)		500		
			1 Telephone, Wall		20		
			Contingency		320	120	2,044
			<u>Ordnance:</u>				
			1 Director S.C.Large	75000			
			1 Bd. Adjustment, Fire M-1	250			
			1 Bd. Range Correction, M-1	900			
			1 Bd. Deflect. M-1	1800			
			1 Bd. Plotting M-3	5000			
			1 Bd. Spotting M-3	1950			
			1 Corrector, Percentage, M-1	125			
			4 Recorders, TI	110			
			1 Rule Set Forward	15			
			1 Scale Prediction	19			
			1 Indicator, Wind, Component	125			
			1 Set Data Transmission				86,294
3		1-A	Two-Gun Emplacements				
			<u>Signal:</u>				
			8 Tel. Box EE-91	240			
			6 H & C Set HS-17A	150			

S E C R E T

Exhibit 9-B, Page 11 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #1 (CONSTR. #106) 2-16" BC, LOCATION NO. 113 - FLOWERS HILL (cont'd)							
3		1-A	Two-Gun Emplacements (cont'd) Signal (cont'd): 2 Hand Sets TS-12A 2 Bells, TI, with cover 8 Boxes, BE- 63 Contingency		24 22 160 120	120	836
3		1-A	B ¹ ₁ S ¹ ₁ LOCATION NO. 110 - MANOMET POINT Signal: 3 Tel. Box EE-91 3 H & C Set HS-17A 1 Bell, TI, MC-153 1 Telephone, Wall Contingency		90 75 11 20 40	60	296
			Ordnance: 1 DFF 1 Az. Inst.	4500 1125			5,625
3		1-A	B ² ₁ S ² ₁ LOCATION NO. 111 - GURNET POINT Signal: 3 Tel. Box EE-91 3 H & C Set HS-17A 1 Bell, TI, MC-153 Contingency		90 75 11 36	60	272
			Ordnance: 2 Az. Inst.	2250			2,250
3		2-A	B ³ ₁ S ³ ₁ LOCATION NO. 112 - BRANT ROCK Signal: 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI, MC-153 Contingency		90 75 11 36	60	272
			Ordnance: 2 Az. Inst.	2250			2,250
3		1-D	B ⁴ ₁ S ⁴ ₁ LOCATION NO. 114 - FOURTH CLIFF Signal: 3 Tel. Box EE-91 3 H & C Set HS-17A 1 Bell, TI, MC-153 Contingency		90 75 11 36	60	272

S E C R E T

Exhibit 9-B, Page 12 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Prio- rity	Item	Site	Description of Project	Ordnance	Equip.	Signal Labor	Total
BATTERY #1 (CONSTR. #106) 2-16" BC, LOCATION NO. 113 - FLOWERS HILL (cont'd)							
3		1-D	^{4 4} B S LOCATION NO. 114 - FOURTH CLIFF (cont'd) ^{1 1}				
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
3		1-A	^{5 5} B S LOCATION NO. 115 - STRAWBERRY POINT ^{1 1}				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Set HS-17A		75		
			1 Bell, TI, MC-153		11		
			Contingency		36	60	272
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
Total for Battery #1 - Signal							\$ 4,934
Ordnance							113,404
Grand Total							\$118,338
BATTERY #2 (CONSTR. #208) 2-6" BC, LOCATION NO. 114 - FOURTH CLIFF							
2		1-B	BC Station				
			Signal:				
			5 Tel. Box EE-91		150		
			3 H & C Set HS-17A		75		
			2 Handsets TS-12A		24		
			1 Swbd. BD-105		230		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		100	60	670
			Ordnance:				
			4 Recorders, TI	110			
			1 DPF	4500			
			1 Az. Inst.	1125			5,735
2		1-C	Plotting Room				
			Signal:				
			11 Tel. Box EE-91		330		
			9 H & C Set HS-17A		225		
			2 Handset TS-12A		24		
			1 Bell, TI		11		
			1 Swbd. BD-95		300		
			1 Telephone, Wall		20		
			Contingency		185	120	1,215

S E C R E T

Exhibit 9-B, Page 13 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #2 (CONSTR. #208) 2-6" BC, LOCATION NO. 114 - FOURTH CLIFF (cont'd)							
2		1-C	Plotting Room (cont'd)				
			<u>Ordnance:</u>				
			1 Director S.C., Medium	25000			
			1 Bd. Adjustment, Fire, M-1	250			
			1 Bd. Range Correction, M-1	900			
			1 Bd. Deflector M-1	1800			
			1 Bd. Plotting M-3	6000			
			1 Bd. Spotting M-3	1950			
			1 Corrector, Percentage, M-1	125			
			4 Recorders, TI	110			
			1 Rule Set Forward	15			
			1 Scale Predictor	19			
			1 Indicator, Wind, Component	125			36,294
2		1-C	Two-Gun Emplacements				
			<u>Signal:</u>				
			8 Tel. Box EE-91		240		
			6 H & C Set HS-17A		150		
			2 Handset TS-12A		24		
			2 Bell, TI, with cover		22		
			8 Boxes EE-63		160		
			Contingency		120	120	836
2		1-A	B ¹ ₂ LOCATION NO. 111 - GURNET POINT				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI, MC-153		11		
			Contingency		40	60	276
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
2		1-A	B ² ₂ LOCATION NO. 112 - BRANT ROCK				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI, MC-153		11		
			1 Telephone, Wall		20		
			Contingency		40	60	296
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625

S E C R E T

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Prio- rity	Item	Site	Description of Project	Ordnance	Signal Equip.	Labor	Total
<u>BATTERY #2 (CONSTR. #208) 2-6" BC, LOCATION NO. 114 - FOURTH CLIFF (cont'd)</u>							
2		1-D	B ³ S ³ B ₂ S ₂ LOCATION NO. 114 - FOURTH CLIFF				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI, MC-153		11		
			1 Telephone, Wall		20		
			Contingency		40	60	296
			<u>Ordnance:</u>				
			2 Az. Inst.	2250			2,250
2		1-B	B ⁴ S ⁴ B ₂ S ₂ LOCATION NO. 115 - STRAWBERRY POINT				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI, MC-153		11		
			Contingency		40	60	276
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			
Total for Battery #2 - Signal							\$ 3,865
Ordnance							61,154
Grand Total							\$65,019

BATTERY #3 (BUMPUS) 2-3" BC, LOCATION NO. 117 - FORT ANDREWS

1	1-C	Battery & BC (existing) All signal and ordnance equipment installed.
---	-----	---

BATTERY #4 (MCCOOK) 2-6" BC, LOCATION NO. 117 - FORT ANDREWS

1	1-B	BC Station				
		<u>Signal:</u>				
		1 Swbd. BD-105		230		
		1 Telephone, Wall		20		
		Contingency		50	60	360
		<u>Ordnance:</u>				
		4 Recorders	110			110
1	1-B	Plotting Room				
		<u>Signal:</u>				
		11 Tel. Box EE-91		330		
		9 H & C Set HS-17A		225		
		2 Handsets TS-12A		24		
		1 Bell, TI, MC-153		11		
		1 Swbd. BD-95		300		
		1 Telephone, Wall		20		
		Contingency		185	120	1,215

S E C R E T

Exhibit 9-B, Page 15 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>BATTERY #4 (MCCOOK) 2-6" BC, LOCATION NO. 117 - FORT ANDREWS (cont'd)</u>							
1		1-B	Plotting Room (cont'd)				
			<u>Ordnance:</u>				
			1 Director S.C. Medium	25000			
			1 Bd. Range Correction M-1	900			
			1 Bd. Deflect. M-1	1800			
			1 Bd. Plotting M-3	6000			
			1 Bd. Spotting M-3	1950			
			1 Corrector, Percentage, M-1	125			
			4 Recorders, TI	110			
			1 Rule set forward	15			
			1 Scale Predictor	19			
			1 Indicator, Wind, Component	125			36,044
1		1-B	Gun Emplacement				
			All equipment installed,				
1		1-A	<u>B₁S₁ 4 4 LOCATION NO. 117 - FORT ANDREWS</u>				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Set HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
1		1-D	<u>B₂S₂ 4 4 LOCATION NO. 127 - FORT DAWES</u>				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Set HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			<u>Ordnance:</u>				
			2 Az. Inst.	2250			2,250
1		1-B	<u>B₃S₃ 4 4 LOCATION NO. 129 - FORT HEATH</u>				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Set HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625

S E C R E T

Exhibit 9-B, Page 16 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
1		1-A	⁴ / ₄ ⁴ / ₄ LOCATION NO. 130 - FORT RUCKMAN				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Set HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
			Total for Battery #4 - Signal				\$ 2,679
			Ordnance				55,279
			Grand Total				\$57,958
<u>BATTERY #5 (LONG) 2-16" BC, LOCATION NO. 118 - FORT DUVAL</u>							
1		1-A	Plotting Room				
			Ordnance:				
			1 Director S.C., Large (16")	75000			75,000
			All other equipment existing or authorized in Augmented Expenditure Program Seacoast Defense Funds, FY 1940, H Harbor Defense of Boston.				
			Total for Battery #5 - Signal				\$-----
			Ordnance				75,000
			Grand Total				\$75,000
<u>BATTERY #6 (STEVENS) 2-3" BC, LOCATION NO. 122 - FORT STRONG</u>							
1		1-A	Battery & BC (existing)				
			All signal and ordnance equipment installed.				
<u>BATTERY #7 (BASINGER) 2-3" BC, LOCATION NO. 122 - FORT STRONG</u>							
1		1-F	Battery & BC (existing)				
			All signal and ordnance equipment installed.				
<u>BATTERY #8 (TAYLOR) 2-3" BC, LOCATION NO. 122 - FORT STRONG</u>							
1		1-B	BC & CRF				
			Signal:				
			5 Tel. Box EE-91		150		
			3 H & C Sets HS-17A		75		
			2 Handsets TS-12A		24		
			1 Bell, TI		11		
			Contingency		50	60	370
			Ordnance:				
			4 Recorders, TI	110			
			2 Az. Inst.	2250			2,360

S E C R E T

Exhibit 9-B, Page 17 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>BATTERY #8 (TAYLOR) 2-3" BC, LOCATION NO. 122 - FORT STRONG (cont'd)</u>							
1		1-B	Gun Emplacements				
			<u>Signal:</u>				
			2 Tel. Box EE-91		60		
			2 H & C Set HS-17A		50		
			Contingency		20	30	160
			Total for Battery #8 - Signal				\$ 530
			Ordnance				2,360
			Grand Total				\$2,890
<u>BATTERY #9 (WILLIAMS) 3-3" BC, LOCATION NO. 123 - FORT STANDISH</u>							
1		1-A	Battery & CRF (existing)				
			All equipment, ordnance and signal installed.				
<u>BATTERY #10 (WHIPPLE) 2-6" BC, LOCATION NO. 123, - FORT STANDISH</u>							
1		1-H	BC Station				
			<u>Signal:</u>				
			1 Swbd. BD-105		230		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		50	60	371
			<u>Ordnance:</u>				
			4 Recorders, TI	110			
			1 DPF	4500			4,610
1		1-H	Plotting Room				
			<u>Signal:</u>				
			11 Tel. Box EE-91		330		
			9 H & C Set HS-17A		225		
			2 Handsets TS-12A		24		
			1 Bell, TI		11		
			1 Swbd. BD-95		300		
			1 Telephone, Wall		20		
			Contingency		180	120	1,210
			<u>Ordnance:</u>				
			1 Director S.C. Medium	25000			
			1 Bd. Adjustment, Fire, M-1	250			
			1 Bd. Range Correction M-1	900			
			1 Bd. Deflect. M-1	1800			
			1 Bd. Plotting M-3	6000			
			1 Bd. Spotting M-3	1950			
			1 Corrector, Percentage, M-1	125			

S E C R E T

Exhibit 9-B, Page 18 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #10 (WHIPPLE) 2-6" BC, LOCATION NO. 123 - FORT STANDISH (cont'd)							
1		1-H	Plotting Room (cont'd) <u>Ordnance (cont'd):</u> 4 Recorders, TI 110 1 Rule Set Forward 15 1 Scale Prediction 19 1 Indicator, Wind, Component 125				36,294
1		1-A	B ¹ ₁₀ S ¹ ₁₀ <u>LOCATION NO. 116 - STRAWBERRY HILL</u> <u>Signal:</u> 3 Tel. Box EE- 91 90 3 H & C Set HS-17A 75 1 Bell, TI 11 1 Telephone, Wall 20 Contingency 40 <u>Ordnance:</u> 1 Az. Inst. 1125			60	296 1,125
1		1-E	B ² ₁₀ S ² ₁₀ <u>LOCATION NO. 123 - FORT STANDISH</u> <u>Signal:</u> 3 Tel. Box EE-91 90 3 H & C Set HS-17A 75 1 Bell, TI 11 Contingency 40 <u>Ordnance</u> 1 Az. Inst. 1125			60	276 1,125
1		1-I	B ³ ₁₀ S ³ ₁₀ <u>LOCATION NO. 127 - FORT DAWES</u> <u>Signal:</u> 3 Tel. Box EE-91 90 3 H & C Sets HS-17A 75 1 Bell, TI 11 Contingency 40 <u>Ordnance:</u> 2 Az. Inst. 2250			60	276 2,250
1		1-A	B ⁴ ₁₀ S ⁴ ₁₀ <u>LOCATION NO. 130 - FORT RUCKMAN</u> <u>Signal:</u> 3 Tel. Box EE-91 90 3 H & C Sets HS-17A 75 1 Bell, TI 11 Contingency 40			60	276

S E C R E T

Exhibit 9-B, Page 19 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>BATTERY #10 (WHIPPLE) 2-6" BC, LOCATION NO. 123 - FORT STANDISH (cont'd)</u>							
1		1-A	B ⁴ S ⁴ 10 10 LOCATION NO. 130 - FORT RUCKMAN (cont'd)				
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
			Total for Battery #10 -		Signal		\$ 2,705
					Ordnance		51,029
					Grand Total		\$53,734
<u>BATTERY #11 (CONSTR. #209) 2-6" BC, LOCATION NO. 126 - OUTER BREWSTER</u>							
2		1-A	BC Station				
			<u>Signal:</u>				
			5 Tel. Box EE- 91		150		
			3 H & C Sets HS-17A		75		
			2 Handsets TS-12A		24		
			1 Swbd. BD-105		230		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		100	60	670
			<u>Ordnance:</u>				
			4 Recorders, TI	110			
			2 Az. Inst.	2250			2,360
2		1-B	Plotting Room				
			<u>Signal:</u>				
			11 Tel. Box EE-91		330		
			9 H & C Sets HS-17A		225		
			2 Handsets TS-12A		24		
			1 Bell, TI		11		
			1 Swbd. BD-95		300		
			1 Telephone, Wall		20		
			Contingency		185	120	1,215
			<u>Ordnance:</u>				
			1 Director S.C.Medium	25000			
			1 Bd. Adjustment, Fire, M-1	250			
			1 Bd. Range Correction M-1	900			
			1 Bd. Deflect. M-1	1800			
			1 Bd. Plotting M-3	6000			
			1 Bd. Spotting M-3	1950			
			1 Corrector, Percentage, M-1	125			
			4 Recorders, TI	110			
			1 Rule Set Forward	15			
			1 Scale Prediction	19			
			1 Indicator, Wind, Component	125			36,294

S E C R E T

Exhibit 9-B, Page 20 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #11 (CONSTR. #209) 2-6" BC, LOCATION NO. 126 - OUTER BREWSTER (cont'd)							
2		1-B	Two-Gun Emplacements				
			<u>Signal:</u>				
			8 Tel. Boxes EE-91		240		
			6 H & C Sets HS-17A		150		
			2 Handsets TS-12A		24		
			2 Bell, TI, with cover		22		
			8 Boxes EE-63		160		
			Contingency		120	120	836
2		1-A	B ¹ ₁₁ S ¹ ₁₁ LOCATION NO. 114 - FOURTH CLIFF				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI, MC-153		11		
			Contingency		40	60	276
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
2		1-D	B ² ₁₁ S ² ₁₁ LOCATION NO. 115 - STRAWBERRY POINT				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI, MC-153		11		
			Contingency		40	60	276
			<u>Ordnance:</u>				
			2 Az. Inst.	2250			2,250
2		1-A	B ³ ₁₁ S ³ ₁₁ LOCATION NO. 120 - POINT ALLERTON				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		40	60	296
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
2		1-A	B ⁴ ₁₁ S ⁴ ₁₁ LOCATION NO. 126 - OUTER BREWSTER				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276

S E C R E T

Exhibit 9-B, Page 21 of 34 Pages

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Prio- rity	Item	Site	Description of Project	Ordnance	Signal Equip.	Labor	Total
BATTERY #11 (CONSTR. #209) 2-6" BC, LOCATION NO. 126 - OUTER BREWSTER (cont'd)							
2	1-A	B ⁴ S ⁴ 11 11	LOCATION NO. 126 - OUTER BREWSTER (cont'd)				
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
2	5-A	B ⁵ S ⁵ 11 11	LOCATION NO. 131 - EAST POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			2 Az. Inst.	2250			2,250
2	1-A	B ⁶ S ⁶ 11 11	LOCATION NO. 132 - MARBLEHEAD NECK				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
Total for Battery #11 - Signal							\$ 4,397
Ordnance							65,654
Grand Total							\$70,051

BATTERY #12 (CONSTR. #105) 2-16" BC, LOCATION NO. 127 - FORT DAWES

3	1-E	DC Station					
			Signal:				
			5 Tel. Box EE-91		150		
			3 H & C Sets HS-17A		75		
			2 Handsets TS-12A		24		
			1 Swbd. BD-105		230		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		100	60	670
			Ordnance:				
			4 Recorders, TI	110			
			1 DPF	4500			
			1 Az. Inst.	1125			5,735

S E C R E T

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #12 (CONSTR. #105) 2-16" BC, LOCATION NO. 127 - FORT DAWES (cont'd)							
3		1-B	Plotting Room				
			<u>Signal:</u>		450		
			15 Tel. Box EE-91		330		
			11 H & C Sets HS-17A		225 275		
			4 Handsets TS-12A		48		
			1 Bell, TI, MC-153		11		
			1 Swbd., BD-95		300		
			1 Radio (SCR-281)		500		
			1 Telephone, Wall		20		
			Contingency		320	120	2,044
			<u>Ordnance:</u>				
			1 Director S.C. Large	75000			
			1 Bd. Adjustment, Fire, M-1	250			
			1 Bd. Range Corrector	900			
			1 Bd. Deflect. M-1	1800			
			1 Bd. Plotting M-3	6000			
			1 Bd. Spotting M-3	1950			
			1 Corrector, Percentage, M-1	125			
			4 Recorders, TI	110			
			1 Rule Set Forward	15			
			1 Scale Prediction	19			
			1 Indicator, Wind, Component	125			86,294
3		1-B	Two-Gun Emplacements				
			<u>Signal:</u>				
			8 Tel. Box EE-91		240		
			6 H & C Sets HS-17A		150		
			2 Handsets TS-12A		24		
			2 Bells, TI, with cover		22		
			8 Boxes BE-63		160		
			Contingency		120	120	836
3		1-A	¹ ₁₂ LOCATION NO. 112 - BRANT ROCK				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625

S E C R E T

Exhibit 9-B, Page 23 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>BATTERY #12 (CONSTR. #105) 2-16" BC, LOCATION NO. 127 - FORT DAWES (cont'd)</u>							
3		1-C	B ² ₁₂ S ² ₁₂ <u>LOCATION NO. 114 - FOURTH CLIFF</u>				
			<u>Signal:</u> 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI Contingency		90 75 11 40	60	276
			<u>Ordnance:</u> 1 DPF 1 Az. Inst.	4500 1125			5,625
3		1-B	B ³ ₁₂ S ³ ₁₂ <u>LOCATION NO. 115 - STRAWBERRY POINT</u>				
			<u>Signal:</u> 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI Contingency		90 75 11 40	60	276
			<u>Ordnance:</u> 2 Az. Inst.	2250			2,250
3		3-A	B ⁴ ₁₂ S ⁴ ₁₂ <u>LOCATION NO. 120 - POINT ALLERTON</u>				
			<u>Signal:</u> 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI Contingency		90 75 11 40	60	276
			<u>Ordnance:</u> 2 Az. Inst.	2250			2,250
3		1-A	B ⁵ ₁₂ S ⁵ ₁₂ <u>LOCATION NO. 131 - EAST POINT</u>				
			<u>Signal:</u> 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI Contingency		90 75 11 40	60	276
			<u>Ordnance:</u> 2 Az. Inst.	2250			2,250
3		3-A	B ⁶ ₁₂ S ⁶ ₁₂ <u>LOCATION NO. 132 - MARBLEHEAD NECK</u>				
			<u>Signal:</u> 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI Contingency		90 75 11 40	60	276

S E C R E T

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #12 (CONSTR. #105) 2-16" BC, LOCATION NO. 127 - FORT DAWES (cont'd)							
3		3-A	B ⁶ S ⁶ _{12 12} LOCATION NO. 132 - MARBLEHEAD NECK (cont'd)				
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
3		1-A	B ⁷ S ⁷ _{12 12} LOCATION NO. 133A - GALES POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
3		1-A	B ⁸ S ⁸ _{12 12} LOCATION NO. 134A - EASTERN POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		40	60	296
			Ordnance:				
			2 Az. Inst.	2250			2,250
3		1-A	B ⁹ S ⁹ _{12 12} LOCATION NO. 135 - EMERSON POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
Total for Battery #12 - Signal							\$ 6,054
Ordnance							129,154
Grand Total							\$135,208

S E C R E T

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #13 (CONSTR. #207) 2-6" BC, LOCATION NO. 127 - FORT DAWES							
2		1-G	BC Station				
			<u>Signal:</u>				
			5 Tel. Box EE-91		150		
			3 H & C Sets HS-17A		75		
			2 Handsets TS-12A		24		
			1 Swbd. BD-105		230		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		100	60	670
			<u>Ordnance:</u>				
			4 Recorders, TI	110			
			2 Az. Inst.	2250			2,360
2		1-C	Plotting Room				
			<u>Signal:</u>				
			11 Tel. Box EE-91		330		
			9 H & C Sets HS-17A		225		
			2 Handsets TS-12A		24		
			1 Bell, TI		11		
			1 Swbd. BD-95		330		
			1 Telephone, Wall		20		
			Contingency		185	120	1,245
			<u>Ordnance:</u>				
			1 Director S.C. Medium	25000			
			1 Bd. Adjustment, Fire, M-1	250			
			1 Bd. Range Correction, M-1	900			
			1 Bd. Deflect. M-1	1800			
			1 Bd. Plotting M-3	6000			
			1 Bd. Spotting M-3	1950			
			1 Corrector, Percentage, M-1	125			
			4 Recorders, TI	110			
			1 Rule Set Forward	15			
			1 Scale Prediction	19			
			1 Indicator, Wind, Component	125			36,294
2		1-C	Two-Gun Emplacements				
			<u>Signal:</u>				
			8 Tel. Box EE-91		240		
			6 H & C Sets HS-17A		150		
			2 Handsets TS-12A		24		
			2 Bells, TI, with cover		22		
			8 Boxes BE-63		160		
			Contingency		120	120	836

S E C R E T

Exhibit 9-B, Page 26 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #13 (CONSTR. #207) 2-6" BC, LOCATION NO. 127 - FORT DAWES (cont'd)							
2		1-A	B ¹ ₁₃ S ¹ ₁₃ LOCATION NO. 115 STRAWBERRY POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		40	60	296
			Ordnance:				
			2 Az. Inst.	2250			2,250
2		1-A	B ² ₁₃ S ² ₁₃ LOCATION NO. 120 - POINT ALLERTON				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
2		1-F	B ³ ₁₃ S ³ ₁₃ LOCATION NO. 127 - FORT DAWES				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			2 Az. Inst.	2250			2,250
2		1-F	B ⁴ ₁₃ S ⁴ ₁₃ LOCATION NO. 131 - EAST POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
2		31A	B ⁵ ₁₃ S ⁵ ₁₃ LOCATION NO. 132 - MARBLEHEAD NECK				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276

S E C R E T

Exhibit 9-B, Page 27 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>BATTERY #13 (CONSTR. #207) 2-6" BC, LOCATION NO. 127 - FORT DAWES (cont'd)</u>							
2		31A	B 5s 5 13 13 LOCATION NO. 132 - MARBLEHEAD NECK (cont'd)				
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
			Total for Battery #13 - Signal				\$ 4,181
			Ordnance				60,029
			Grand Total				\$64,180
<u>BATTERY #14 (GARDNER) 2-12" LR, LOCATION NO. 130 - FORT HUCKMAN</u>							
1		2-A	Plotting Room				
			<u>Signal:</u>				
			1 Swbd. BD-95		300		
			Contingency		60	60	420
			<u>Ordnance:</u>				
			1 Director S.C.Large	75000			75,000
			All other signal and ordnance equipment existing or authorized in Augmented Expenditure Program, FY 1941, Harbor Defenses of Boston.				
			Total for Battery #14 - Signal				\$ 420
			Ordnance				75,000
			Grand Total				\$75,420
<u>BATTERY #15 (CONSTR. #206) 2-6" BC, LOCATION NO. 131 - EAST POINT</u>							
2		3-A	BC Station				
			<u>Signal:</u>				
			5 Tel. Box EE-91		150		
			3 H & C Sets HS-17A		75		
			2 Handsets TS-12A		24		
			1 Swbd. BD-105		230		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		100	60	670
			<u>Ordnance:</u>				
			4 Recorders, TI	110			
			2 Az. Inst.	2250			2,360
2		3-A	Plotting Room				
			<u>Signal:</u>				
			11 Tel. Boxes EE-91		330		
			9 H & C Sets HS-17A		225		

S E C R E T

Exhibit 9-B, Page 28 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #15 (CONSTR. #206) 2-6" BC, LOCATION NO. 131 - EAST POINT (cont'd)							
2		3-A	Plotting Room (cont'd)				
			<u>Signal (cont'd):</u>				
			2 Handsets TS-12A		24		
			1 Bell, TI		11		
			1 Swbd. BD-95		300		
			1 Telephone, Wall		20		
			Contingency		185	120	1,215
			<u>Ordnance:</u>				
			1 Director, S.C. Medium	25000			
			1 Bd. Adjustment, Fire, M-1	250			
			1 Bd. Range Correction M-1	900			
			1 Bd. Deflect. M-1	1800			
			1 Bd. Plotting M-3	6000			
			1 Bd. Spotting M-3	1950			
			1 Corrector, percentage, M-1	125			
			4 Recorders, TI	110			
			1 Rule Set Forward	15			
			1 Scale Prediction	19			
			1 Indicator, Wind, Component	125			36,294
2		3-A	Two-Gun Emplacements				
			<u>Signal:</u>				
			8 Tel. Box EE-91		240		
			6 H & C Sets HS-17A		150		
			2 Handsets TS-12A		24		
			2 Bells, TI, with cover		22		
			8 Boxes EE-63		160		
			Contingency		120	120	836
2		1-A	B ₁₅ ¹ ₁₅ LOCATION NO. 115 - STRAWBERRY POINT				
			<u>Signal:</u>				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			<u>Ordnance:</u>				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625

S E C R E T

Exhibit 9-B, Page 29 of 34 Pages

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Prio- rity	Item	Site	Description of Project	Ordnance	Signal Equip.	Labor	Total
BATTERY #15 (CONSTR. #206) 2-6" BC, LOCATION NO. 131 - EAST POINT (cont'd)							
2		3-A	B ² ₁₅ S ² ₁₅ LOCATION NO. 120 - POINT ALLERTON				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
2		1-A	B ³ ₁₅ S ³ ₁₅ LOCATION NO. 131 - EAST POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		40	60	296
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
2		1-A	B ⁴ ₁₅ S ⁴ ₁₅ LOCATION NO. 132 - MARBLEHEAD NECK				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		40	60	296
			Ordnance:				
			2 Az. Inst.	2250			2,250
2		1-A	B ⁵ ₁₅ S ⁵ ₁₅ LOCATION NO. 133A - GALES POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
Total for Battery #15 - Signal							\$ 4,141
Ordnance							63,404
Grand Total							\$67,545

S E C R E T

S E C R E T

Form #20, Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #16 (CONSTR. #104) 2-16" BC, LOCATION NO. 131 - EAST POINT							
3		3-B	BC Station				
			<u>Signal:</u>				
			5 Tel. Box EE-91		150		
			3 H & C Sets HS-17A		75		
			2 Handsets TS-12A		24		
			1 Swbd. BD-105		230		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		100	60	670
			<u>Ordnance:</u>				
			4 Recorders, TI	110			
			1 DPF	4500			
			1 Az. Inst.	1125			5,735
3		3-B	Plotting Room				
			<u>Signal:</u>				
			15 Tel. Box EE-91		450		
			11 H & C Sets HS-17A		275		
			4 Handsets TS-12A		48		
			1 Bell, TI		11		
			1 Swbd. BD-95		300		
			1 Radio (SCR-281)		500		
			1 Telephone, Wall		20		
			Contingency		320	120	2,044
			<u>Ordnance:</u>				
			1 Director, S.C. Large	75000			
			1 Bd. Adjustment, Fire, M-1	250			
			1 Bd. Range Corrector M-1	900			
			1 Bd. Deflect. M-1	1800			
			1 Bd. Plotting M-3	6000			
			1 Bd. Spotting M-3	1950			
			1 Corrector, Percentage, M-1	125			
			4 Recorders, TI	110			
			1 Rule Set Forward	15			
			1 Scale Prediction	19			
			1 Indicator, Wind, Component	125			86,294
3		3-B	Two-Gun Emplacements				
			<u>Signal:</u>				
			8 Tel. Box EE-91		240		
			6 H & C Sets HS-17A		150		
			2 Handsets TS-12A		24		
			2 Bells, TI, with cover		22		
			8 Boxes BE-63		160		
			Contingency		120	120	836

S E C R E T

Exhibit 9-B, Page 31 of 34 Pages

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
BATTERY #16 (CONSTR. #104) 2-16" BC, LOCATION NO. 131 - EAST POINT (cont'd)							
3		1-A	B ¹ ₁₆ S ¹ ₁₆ LOCATION NO. 114 - FOURTH CLIFF				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			1 Telephone, Wall		20		
			Contingency		40	60	296
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
3		1-D	B ² ₁₆ S ² ₁₆ LOCATION NO. 115 - STRAWBERRY POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			2 Az. Inst.	2250			2,250
3		1-A	B ³ ₁₆ S ³ ₁₆ LOCATION NO. 120 - POINT ALLERTON				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			1 DPF	4500			
			1 Az. Inst.	1125			5,625
3		2-A	B ⁴ ₁₆ S ⁴ ₁₆ LOCATION NO. 131 - EAST POINT				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276
			Ordnance:				
			2 Az. Inst.	2250			2,250
3		1-A	B ⁵ ₁₆ S ⁵ ₁₆ LOCATION NO. 132 - MARBLEHEAD NECK				
			Signal:				
			3 Tel. Box EE-91		90		
			3 H & C Sets HS-17A		75		
			1 Bell, TI		11		
			Contingency		40	60	276

S E C R E T

Form #20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by BATTERY

Priority	Item	Site	Description of Project	Ordnance	Signal		Total
					Equip.	Labor	
<u>BATTERY #16 (CONSTR. #104) 2-16" BC, LOCATION NO. 131 - EAST POINT (cont'd)</u>							
3		1-A	B ⁵ / ₁₆ S ⁵ / ₁₆ <u>LOCATION NO. 132 - MARBLEHEAD NECK (cont'd)</u>				
			<u>Ordnance:</u> 2 Az. Inst.	2250			2,250
3		1-A	B ⁶ / ₁₆ S ⁶ / ₁₆ <u>LOCATION NO. 133A- GALES POINT</u>				
			<u>Signal:</u> 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI 1 Telephone, Wall Contingency		90 75 11 20 40	60	296
			<u>Ordnance:</u> 1 DPF 1 Az. Inst.	4500 1125			5,625
3		1-A	B ⁷ / ₁₆ S ⁷ / ₁₆ <u>LOCATION NO. 134A - EASTERN POINT</u>				
			<u>Signal:</u> 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI Contingency		90 75 11 40	60	276
			<u>Ordnance:</u> 2 Az. Inst.	2250			2,250
3		1-A	B ⁸ / ₁₆ S ⁸ / ₁₆ <u>LOCATION NO. 135 - EMERSON POINT</u>				
			<u>Signal:</u> 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI Contingency		90 75 11 40	60	276
			<u>Ordnance:</u> 1 DPF 1 Az. Inst.	4500 1125			5,625
3		1-A	B ⁹ / ₁₆ S ⁹ / ₁₆ <u>LOCATION NO. 136 - HALIBUT POINT</u>				
			<u>Signal:</u> 3 Tel. Box EE-91 3 H & C Sets HS-17A 1 Bell, TI Contingency		90 75 11 40	60	276

S E C R E T

Exhibit 9-B, Page 33 of 34 Pages

S E C R E T

Form No. 20. Annex B.

H. D. of Boston

Cost Estimate and Priority Guide

FIRE CONTROL - SIGNAL and ORDNANCE

Arranged by Battery

Prio-:	:	:	Description of Project :	Signal :	:
ity :	Item:	Site:	:	Ordnance :	Equip. : Labor : Total

BATTERY #16 (CONSTR. #104), 2-16" BC, LOCATION NO. 131, EAST POINT (cont'd)

3	1-A	B ⁹ ₁₆ S ⁹ ₁₆	Location No. 136, Halibut Point (cont'd)		
			<u>Ordnance:</u>		
			1 DPF	4500	
			1 Az. Instr.	1125	5,625

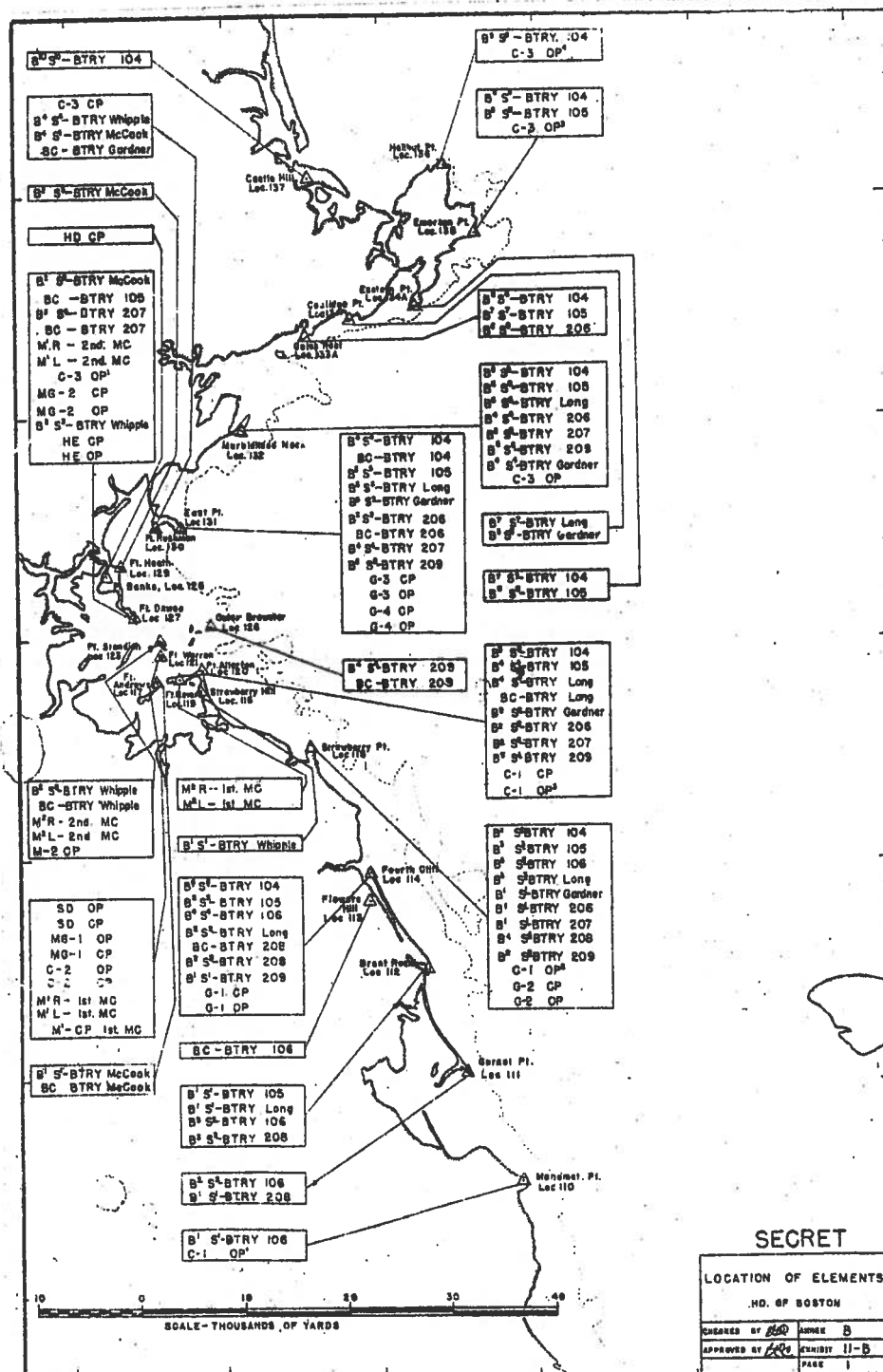
3	1-A	B ¹⁰ ₁₆ S ¹⁰ ₁₆	Location No. 137, Castle Hill		
			<u>Signal:</u>		
			3 Tel. Box ET-91	90	
			3 H & C Sets, HS 17-A	75	
			1 Bell, TI	11	
			1 Tel., Wall	20	
			Contingency	40	60
					296
			<u>Ordnance:</u>		
			1 DPF	4500	
			1 Az. Instr.	1125	<u>5,625</u>

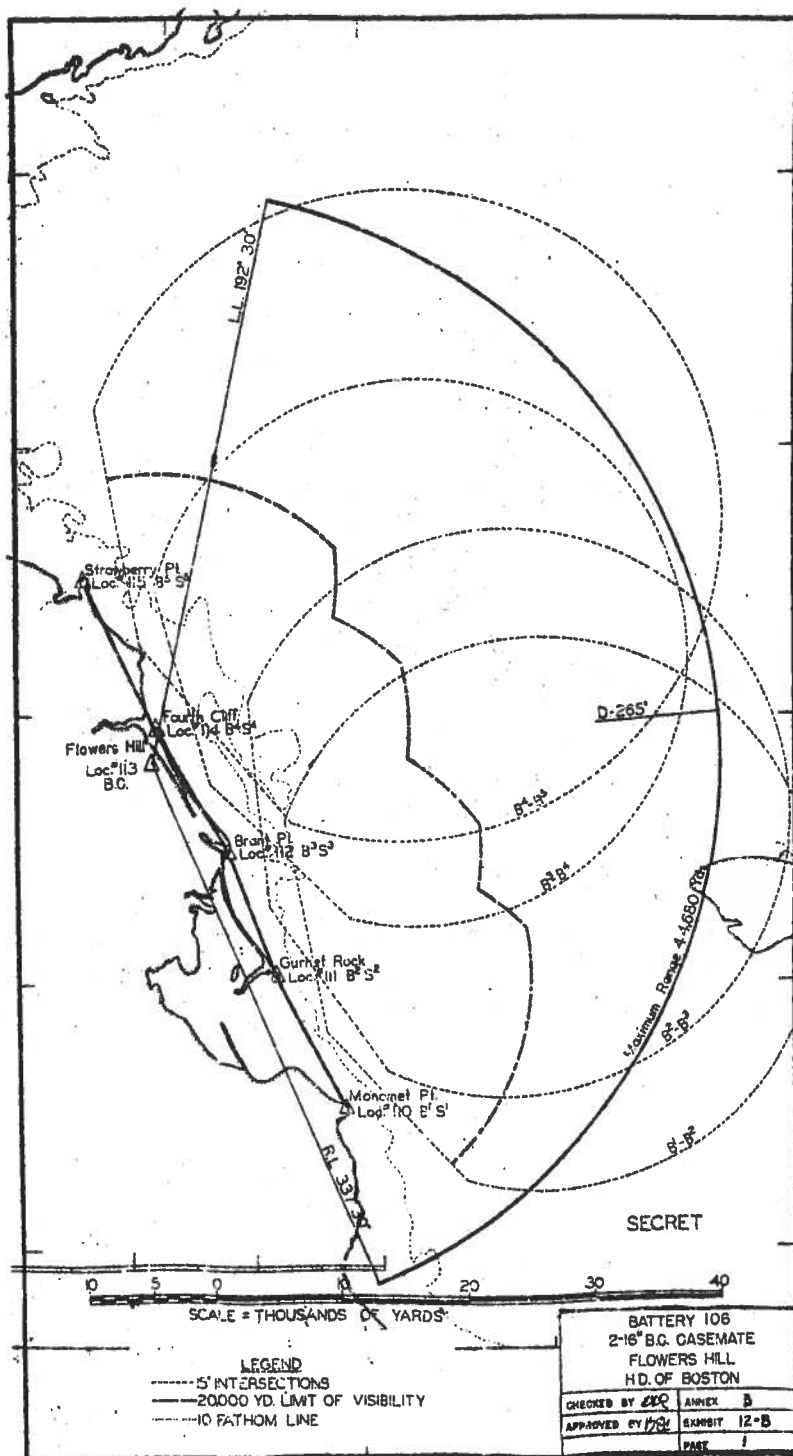
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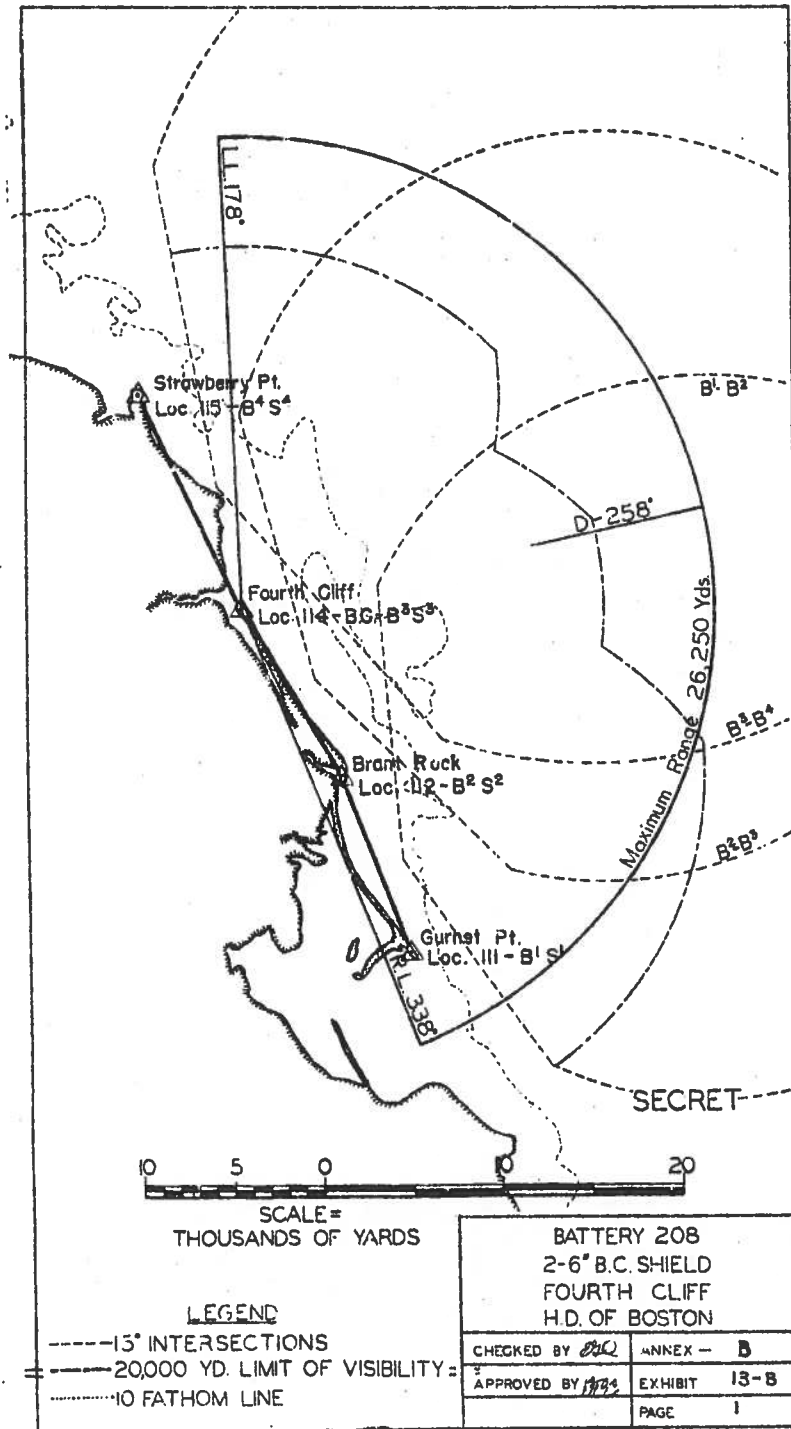
Signal	6,370
Ordnance	<u>134,779</u>
Total	<u>\$141,149</u>

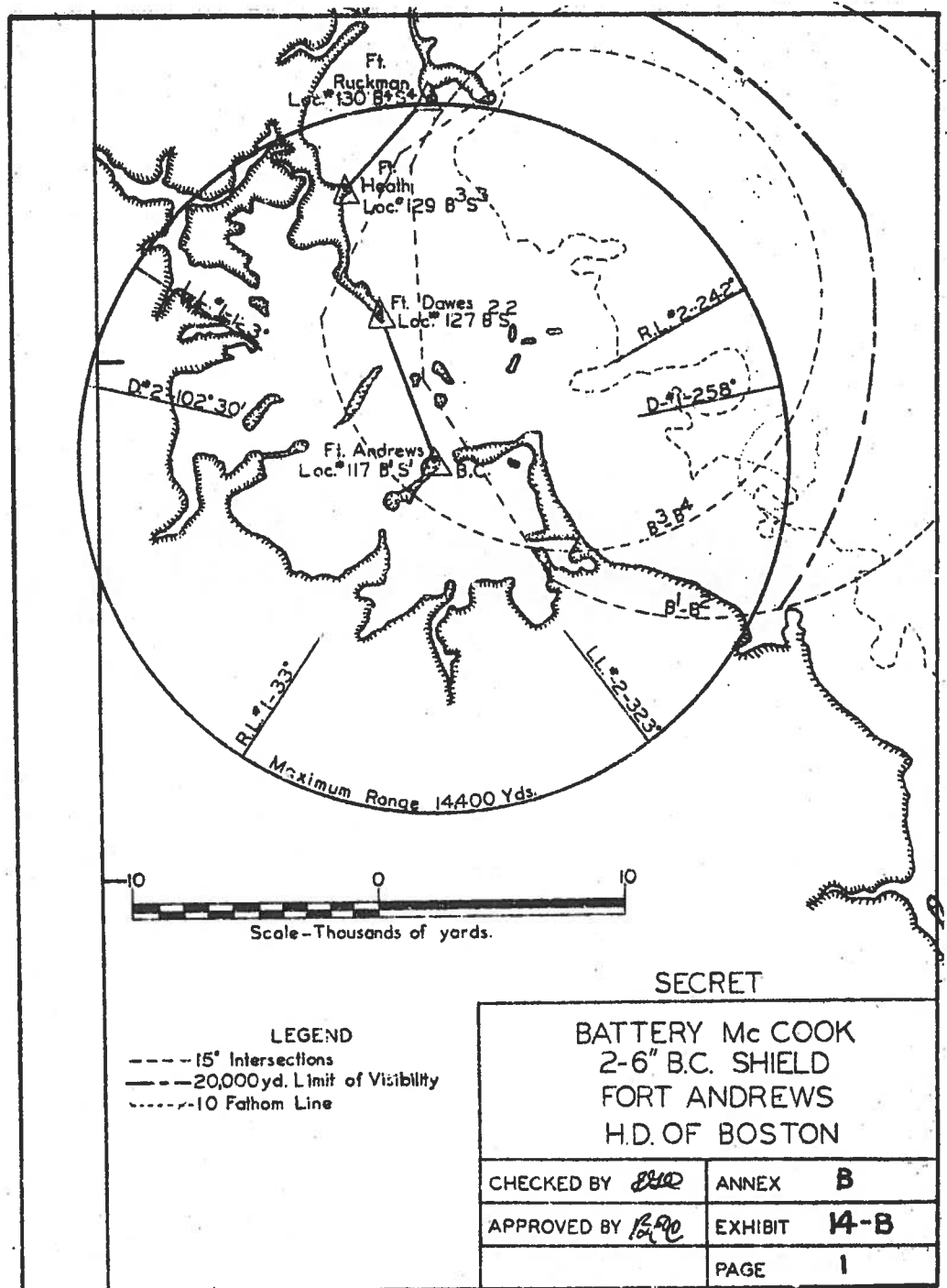
	<u>SIGNAL</u>	<u>ORDNANCE</u>	<u>TOTAL</u>
Totals by Location	\$57,655	\$ 15,420	\$ 73,075
Totals by Battery	<u>40,246</u>	<u>886,246</u>	<u>926,492</u>
TOTALS	\$97,901	\$901,666	\$999,567

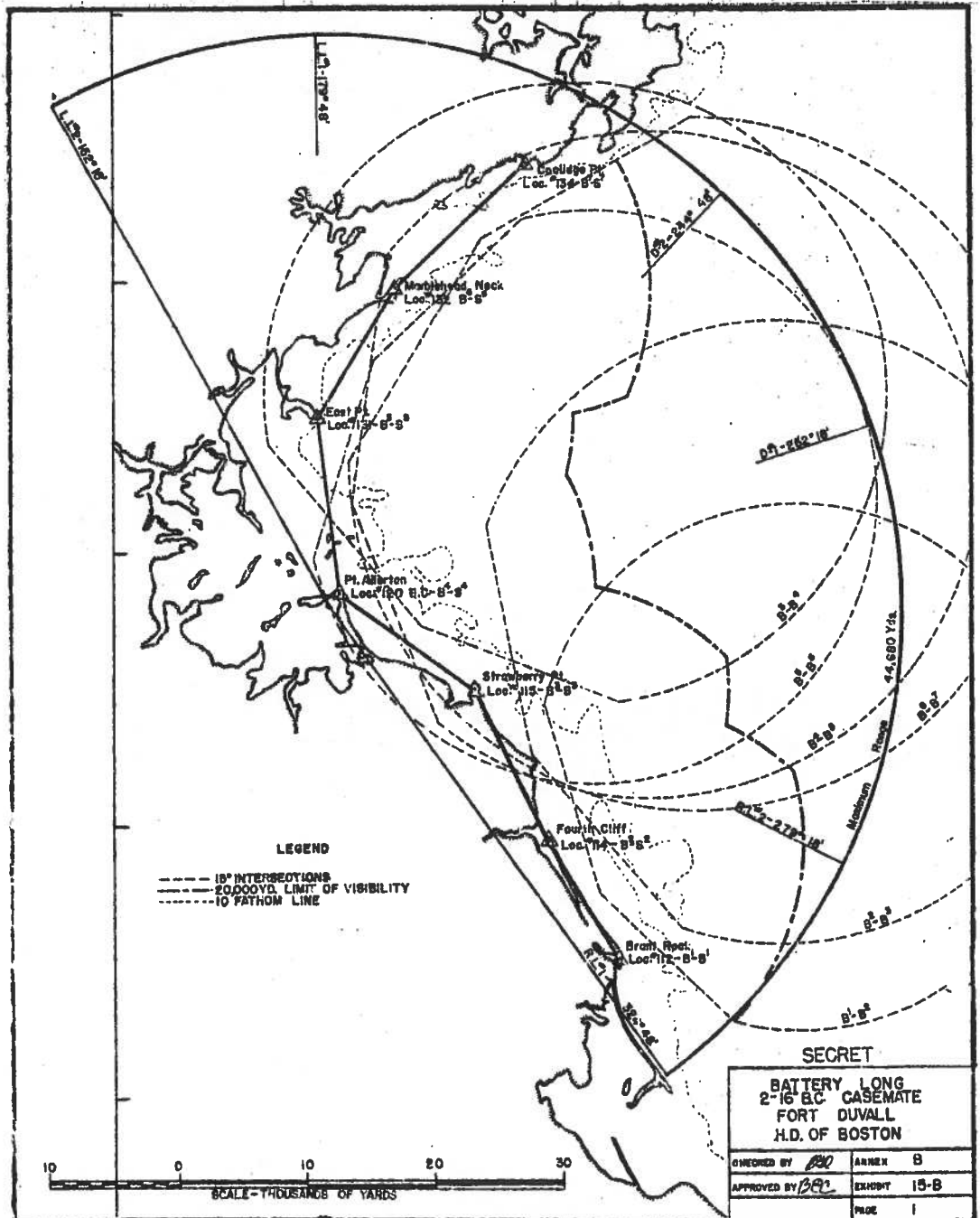
S E C R E T

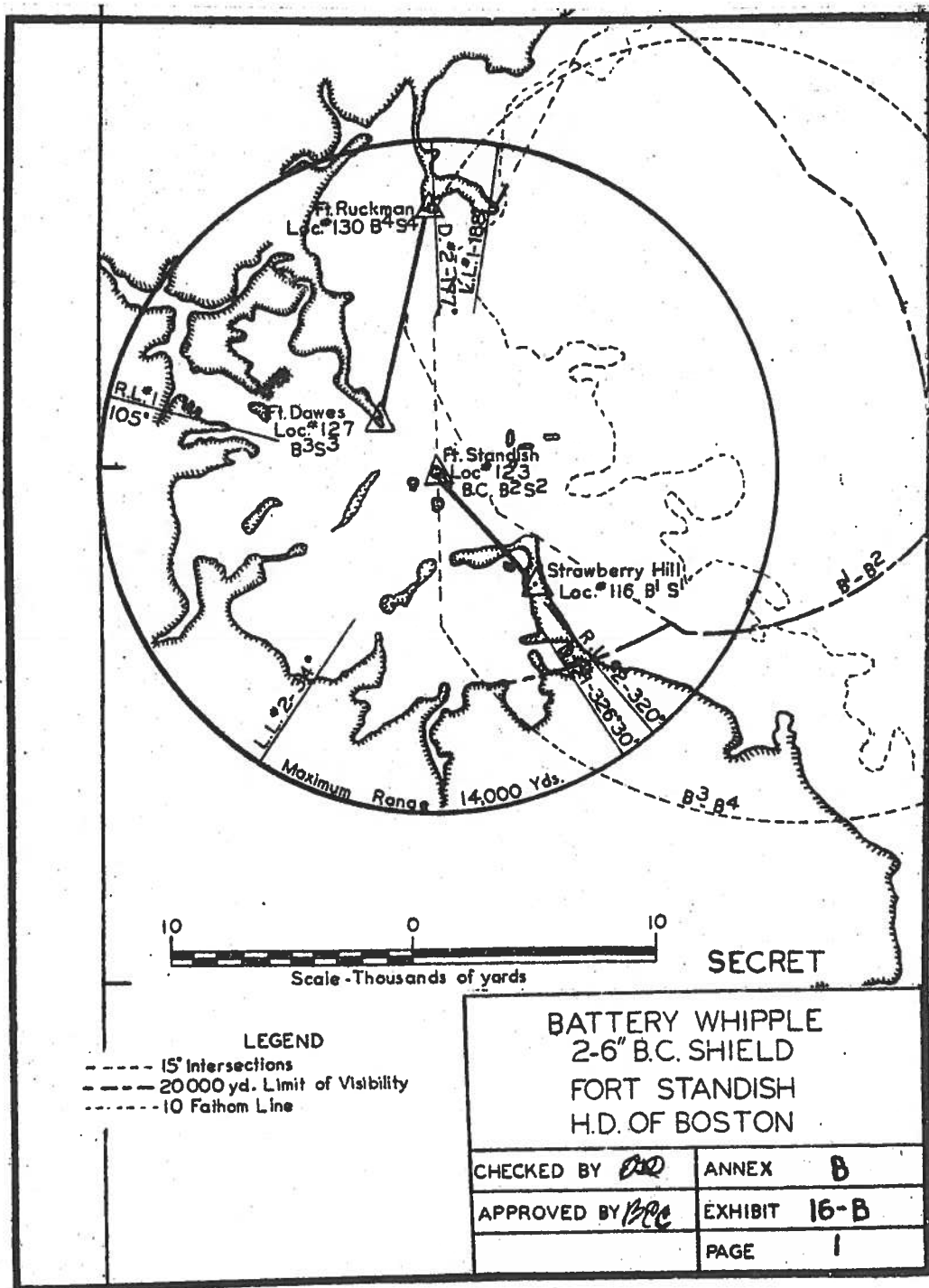


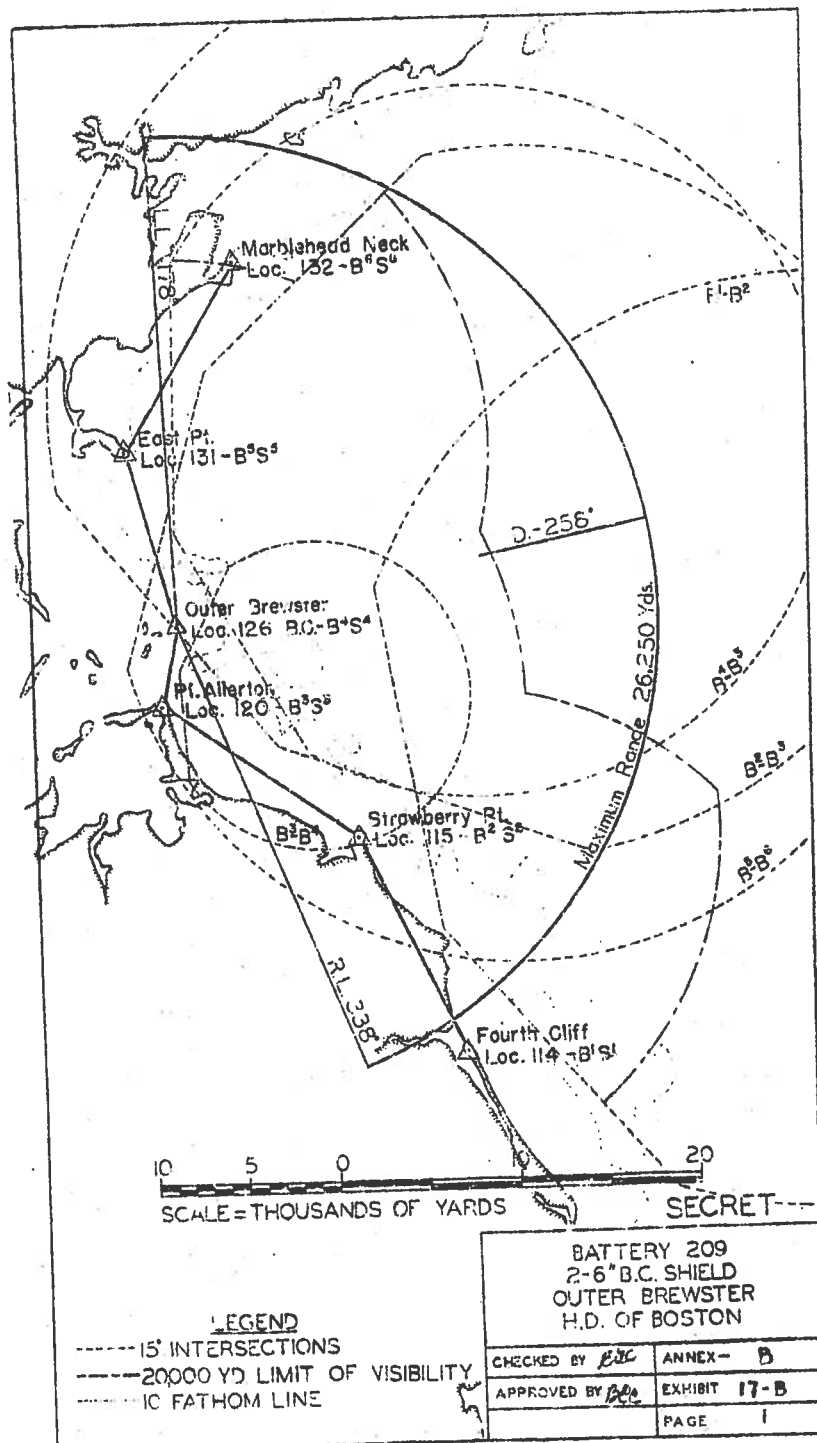


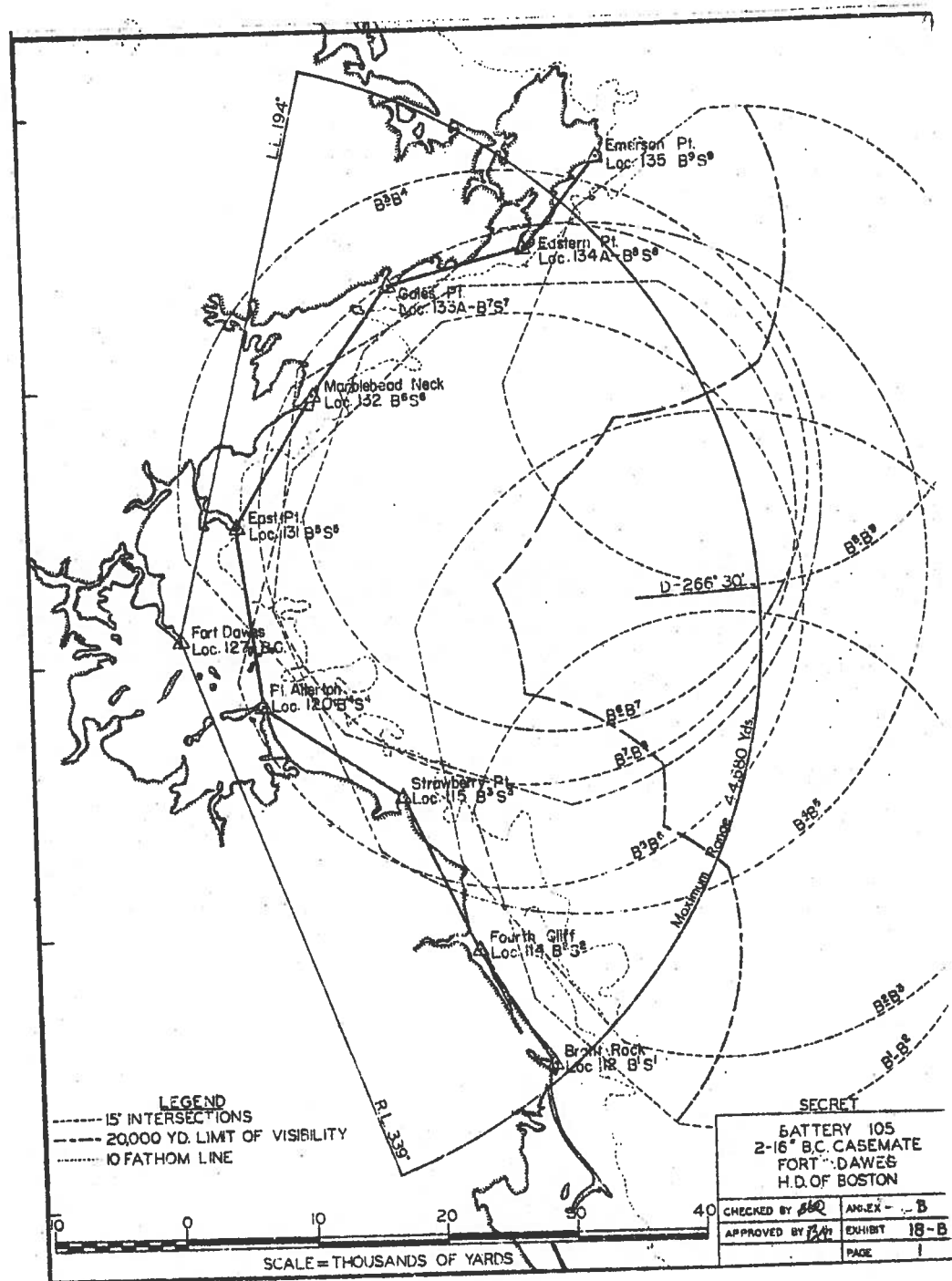


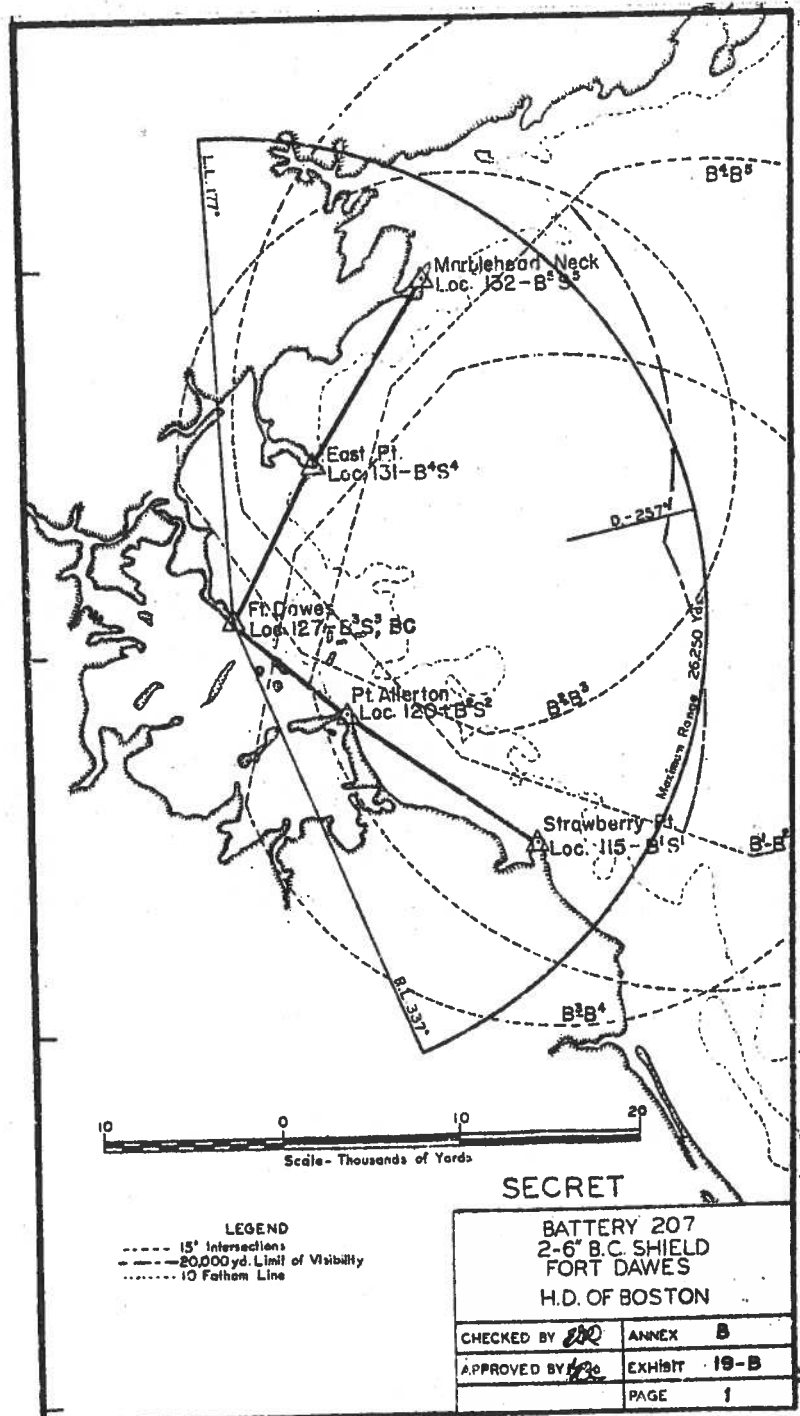








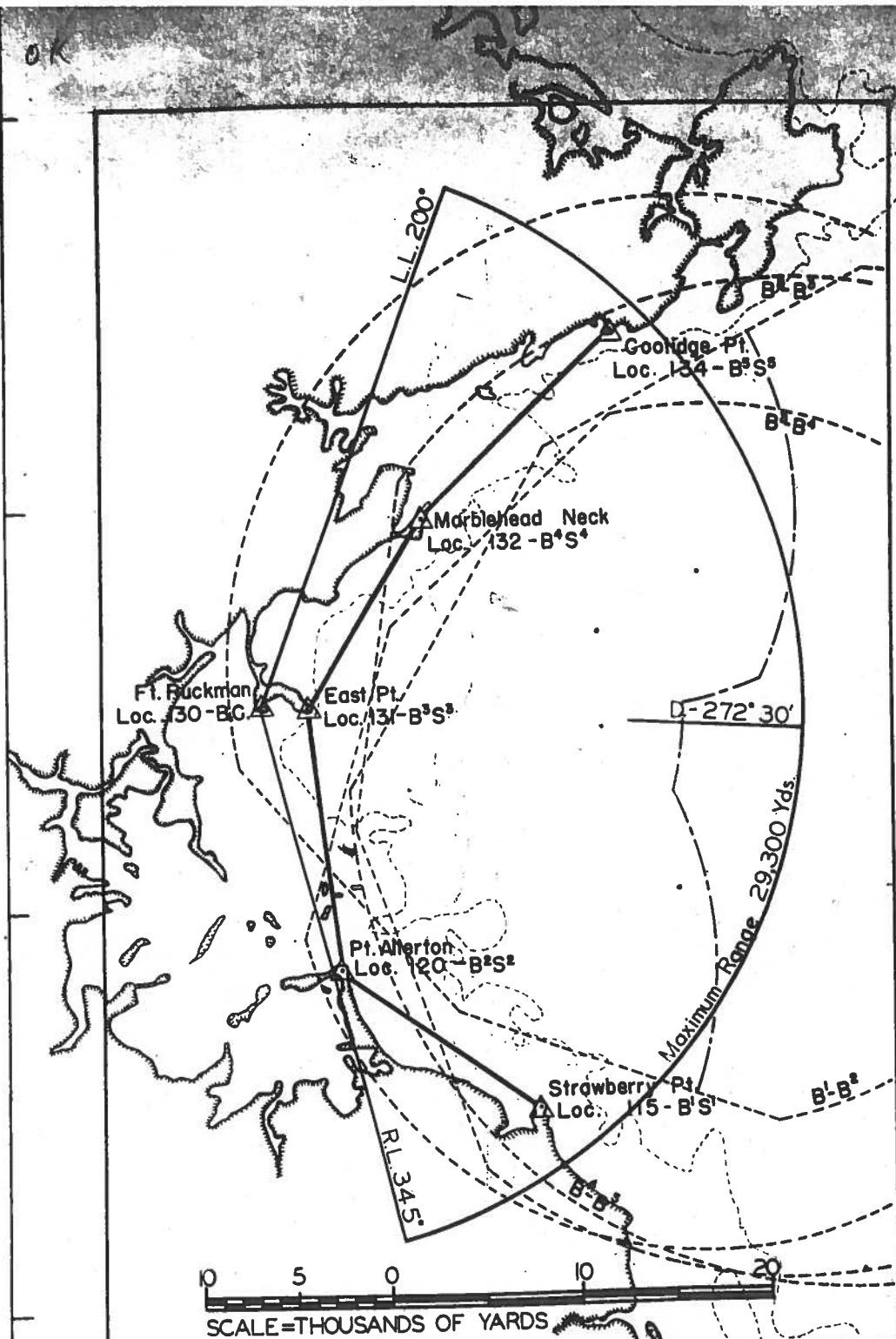




SECRET

BATTERY 207
2-6" B.C. SHIELD
FORT DAWES
H.D. OF BOSTON

CHECKED BY <i>[Signature]</i>	ANNEX B
APPROVED BY <i>[Signature]</i>	EXHIBIT 19-B
	PAGE 1



LEGEND

- 15° INTERSECTIONS
- 20,000 YD. LIMIT OF VISIBILITY
- 10 FATHOM LINE

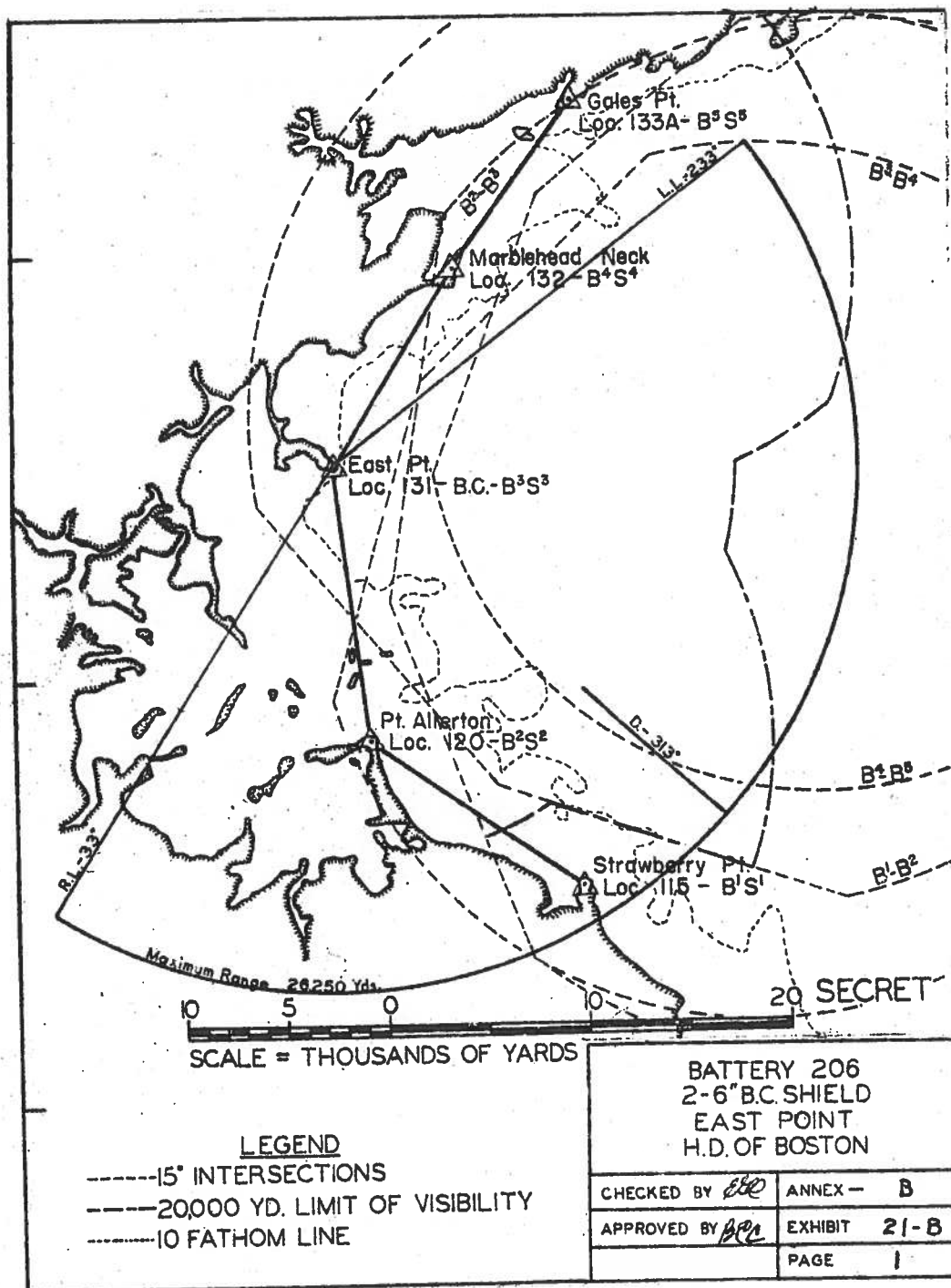
SECRET

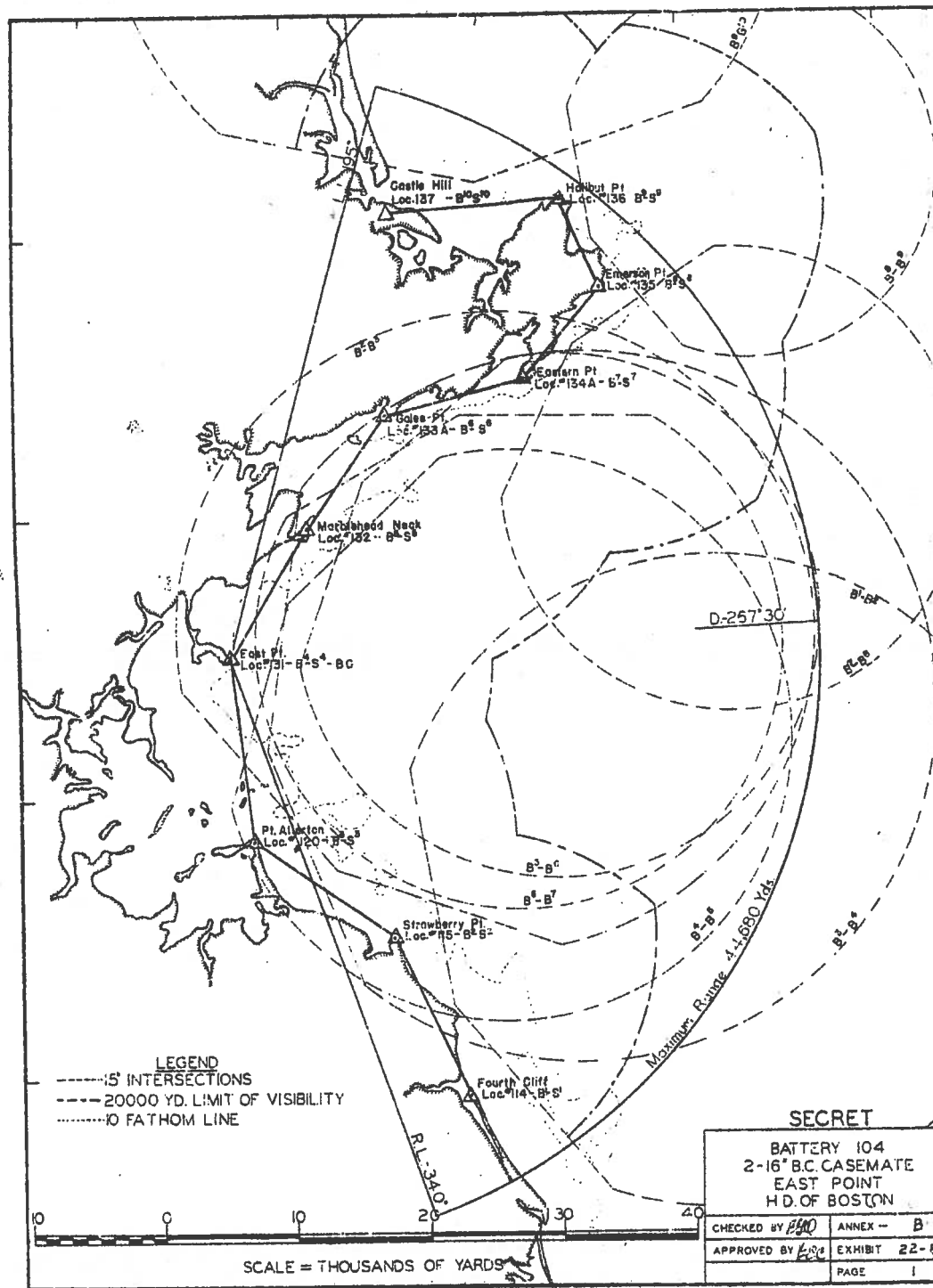
BATTERY GARDNER
2-12" B.C. CASEMATE
FORT RUCKMAN
H.D. OF BOSTON

CHECKED BY *EBB* ANNEX - B

APPROVED BY *BC* EXHIBIT 20-B

PAGE 1

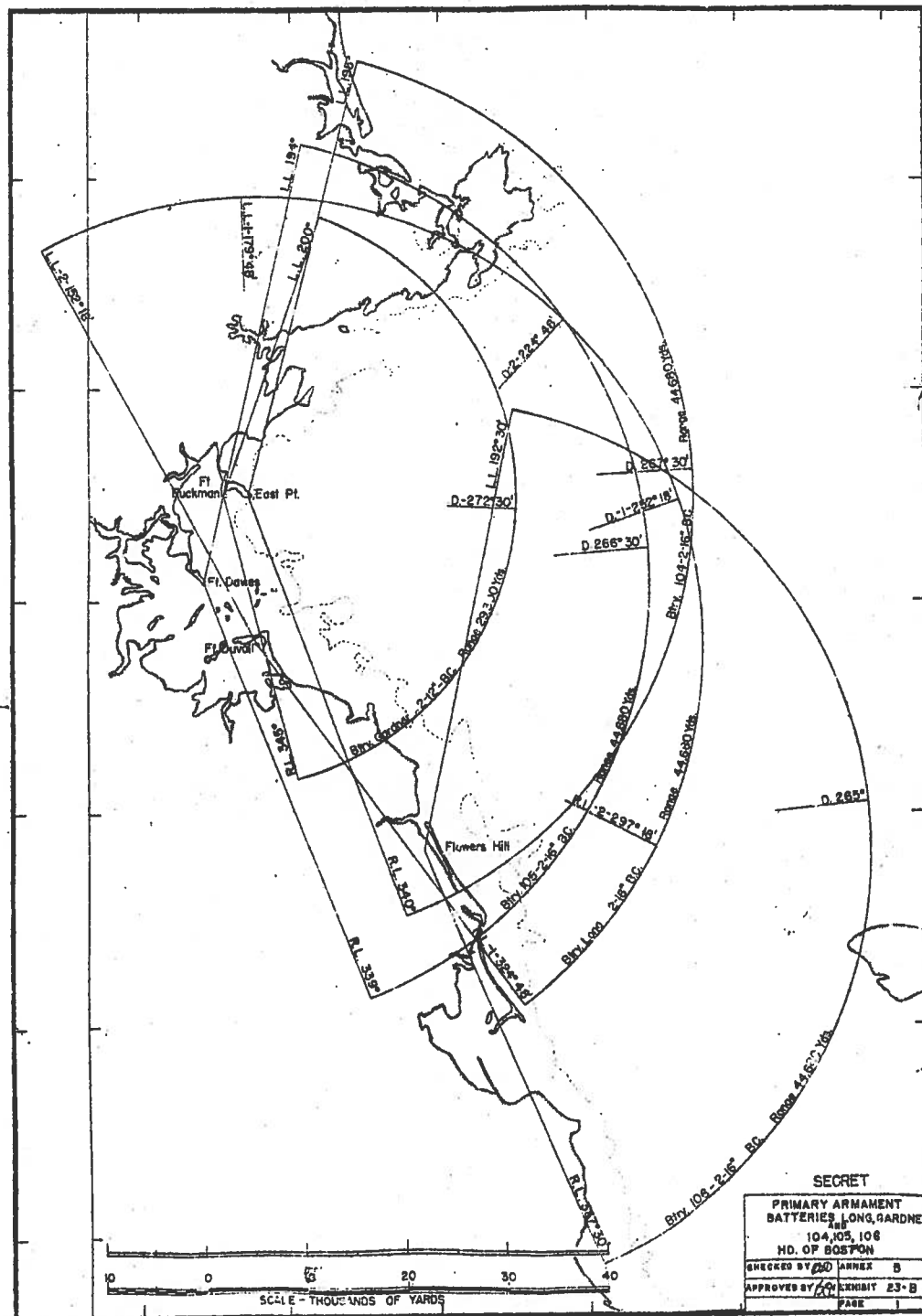


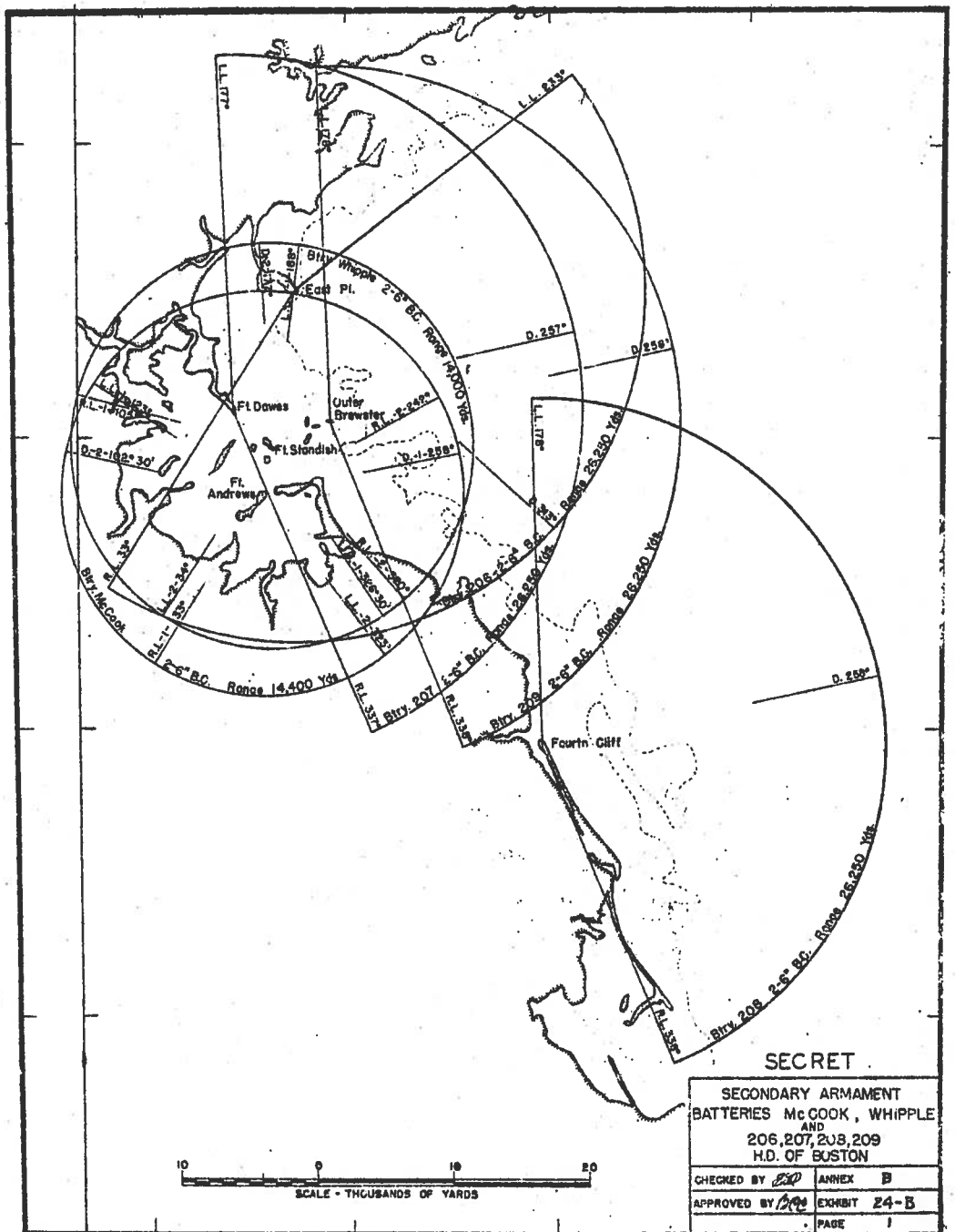


SECRET

BATTERY 104
2-16" B.C. CASEMATE
EAST POINT
H.D. OF BOSTON

CHECKED BY <i>END</i>	ANNEX -- B
APPROVED BY <i>END</i>	EXHIBIT 22-B
	PAGE 1





SECRET

SECONDARY ARMAMENT
BATTERIES MCCOOK, WHIPPLE
AND
206, 207, 208, 209
H.D. OF BOSTON

CHECKED BY <i>SD</i>	ANNEX B
APPROVED BY <i>SD</i>	EXHIBIT 24-B
PAGE 1	

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation :	Purpose :	Type :	Termination of Each Circuit :	Loc. :	Check
of :	of :	of :	:	:	:
Installation :	Telephone :	Phone :	Installation :	Place :	No. : Column

MANOMET POINT, LOCATION NO. 110

Site 1A

C ₁ ¹ -OP	Observer	HS	C ₁ -CP	Point Allerton	120
	Reader	HS	C ₁ -CP	Point Allerton	120
	TI	-	FSB	Flowers Hill	113
	Post	Wall	PSB #1	Flowers Hill	113
B ₁ ¹ S ₁ ¹	Observer	HS	P1	Flowers Hill	113
	Reader	HS	P1	Flowers Hill	113
	Spotter	HS	P1	Flowers Hill	113
	TI	-	FSB	Flowers Hill	113
Const.#106	Post	Wall	PSB #1	Flowers Hill	113
AAIS OP-1	Observer	EE8	AACP	Fort Banks	128
SL 1P	Ord.& Int.	HS	C ₁ -CP	Point Allerton	120
SL 2P	Ord.& Int.	HS	G ₁ -CP	Fourth Cliff	114

GURNET POINT, LOCATION NO. 111

Site 1A

B ₁ ² S ₁ ²	Observer	HS	P1	Flowers Hill	113
	Reader	HS	P1	Flowers Hill	113
	Spotter	HS	P1	Flowers Hill	113
	TI	-	FSB	Flowers Hill	113
(Const.#106)	Post	Wall	PSB #1	Flowers Hill	113
B ₂ ¹ S ₂ ¹	Observer	HS	P2	Fourth Cliff	114
	Reader	HS	P2	Fourth Cliff	114
	Spotter	HS	P2	Fourth Cliff	114
	TI	-	FSB	Fourth Cliff	114
(Const.#208)					
AAIS OP-2	Observer	EE8	AACP	Fort Banks	128
SL 3P	Ord. & Int.	HS	G ₁ -CP	Fourth Cliff	114
SL 4P	Ord. & Int.	HS	C ₁ -CP	Point Allerton	120

BRANT ROCK, LOCATION NO. 112

Site 1A

B ₂ ² S ₂ ²	Observer	HS	P2	Fourth Cliff	114
	Reader	HS	P2	Fourth Cliff	114
	spotter	HS	P2	Fourth Cliff	114
	TI	-	FSB	Fourth Cliff	114
(Const.#208)	Post	Wall	PSB #1	Flowers Hill	113
B ₁₂ ¹ S ₁₂ ¹	Observer	HS	P12	Fort Dawes	127
	Reader	HS	P12	Fort Dawes	127
	Spotter	HS	P12	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
(Const.#105)					
AAIS OP-3	Observer	EE8	AACP	Fort Banks	128

S E C R E T

Exhibit 25-B, Page 1 of 28 Pages

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation of Installation	Purpose of Telephone	Type of Phone	Termination of Each Circuit of Installation	Place	: Loc. : Check : No. : Column
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BRANT ROCK, LOCATION NO. 112 (cont'd)Site 2A

B3S3	Observer	HS	P1	Flowers Hill	113
1 1	Reader	HS	P1	Flowers Hill	113
(Const.#106)	Spotter	HS	P1	Flowers Hill	113
	TI	-	FSB	Flowers Hill	113
	Post	Wall	PSB #1	Flowers Hill	113
B1S1	Observer	HS	P5	Fort Duvall	118
5 5	Reader	HS	P5	Fort Duvall	118
(Long)	Spotter	HS	P5	Fort Duvall	118
	TI	-	FSB	Fort Revere	119
SL 5P	Ord. & Int.	HS	G1-CP	Fourth Cliff	114
SL 6P	Ord. & Int.	HS	G1-CP	Point Allerton	120

FLOWERS HILL, LOCATION NO. 113Site 1A

P1	Orders	HS	BC1	Flowers Hill	113
(Const.#106)	Intelligence	HS	BC1 & OP's	Flowers Hill	113
	Range Off.	TS	BC1	Flowers Hill	113
	Radio	HS	FSB	Flowers Hill	113
	Armsetters	2HS	FSB	Flowers Hill	113
	Spotting	2HS	FSB	Flowers Hill	113
	Range	HS	Guns 1 and 2	Flowers Hill	113
	Azimuth	HS	Guns 1 and 2	Flowers Hill	113
	Checkback	2TS	Guns 1 and 2	Flowers Hill	113
	Ammunition	TS	Btry. magaz.	Flowers Hill	113
	Swb. Opr.	HS	BD 95 (P1)	Flowers Hill	113
	Post	Wall	PSB #1	Flowers Hill	113
	TI	-	FSB	Flowers Hill	113
Magazine					
(Const.#106)	Ammunition	HS	P1	Flowers Hill	113
Battery #1	Orders	2HSO	BC1	Flowers Hill	113
(Const.#106)	Range	2HSO	P1	Flowers Hill	113
	Azimuth	2HSO	P1	Flowers Hill	113
	Checkback	2TSO	P1	Flowers Hill	113
	TI	-	FSB	Flowers Hill	113
FSB & PSB #1	Orders	TS	BC1	Flowers Hill	113
(Const.#106)	BD 74	TS	FSB	Flowers Hill	113
	Post	Wall	PSB #1	Flowers Hill	113
	TI	-	FSB	Flowers Hill	113

Site 1B

BC1	Order	HS	G1-CP	Fourth Cliff	114
(Const.#106)	Intelligence	HS	G1-CP	Fourth Cliff	114
	Orders	TS	P1 and Guns	Flowers Hill	113
	Observers	HS	P1 & OP's	Flowers Hill	113
	Reader	HS	P1	Flowers Hill	113
	Post	Wall	PSB #1	Flowers Hill	113
	TI	-	FSB	Flowers Hill	113

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : of :	Purpose : of :	Type : of :	Termination of Each Circuit : :	Loc. : Place :	Check : No. : Column
Installation :	Telephone :	Phone :	Installation :	Place :	No. : Column

FLOWERS HILL, LOCATION NO. 113 (cont'd)

Site 1-C

Storage Magazine	Post	Wall	PBS	Flowers Hill	113
2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-50 cal.(AA)	Ord. & Int.	HS	AACP	Fort Banks	128

FOURTH CLIFF, LOCATION NO. 114

Site 1A

G1-CP & OP	Orders	TS	C1-CP	Point Allerton	120
	Intelligence	HS	C1-CP	Point Allerton	120
	Orders	HS	BC1	Flowers Hill	113
	Intelligence	HS	BC1	Flowers Hill	113
	Orders	HS	BC5	Point Allerton	120
	Intelligence	HS	BC5	Point Allerton	120
	Observer	HS	G1-OP	Fourth Cliff	114
	Orders	HS	SL 2,3,&5(FSB)	Fourth Cliff	114
	Radio	TS	FSB	Fourth Cliff	114
Post	Wall	PSB #1	Flowers Hill	113	
TI	-	FSB	Fourth Cliff	114	
B ₁₆ ¹ ₁₆ (Const.#104)	Post	Wall	PSB #1	Flowers Hill	113
	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
	Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131
B ₁₁ ¹ ₁₁ (Const.#209)	Observer	HS	P11	Outer Brewster	126
	Reader	HS	P11	Outer Brewster	126
	Spotter	HS	P11	Outer Brewster	126
	TI	-	FSB	Outer Brewster	126
AAIS OP-4	Observer	EE8	AACP	Fort Banks	128

Site 1B

B ₁₂ ² ₁₂ (Const.#105)	Observer	HS	P12	Fort Dawes	127
	Reader	HS	P12	Fort Dawes	127
	Spotter	HS	P12	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
BC2 (Const.#208)	Orders	TS	G2-CP	Strawberry Pt.	115
	Intelligence	HS	G2-CP	Strawberry Pt.	115
	Orders	TS	P2 & Guns	Fourth Cliff	114
	Observer	HS	P2 & OP's	Fourth Cliff	114
	Reader	HS	P2	Fourth Cliff	114
	Post	Wall	PSB #1	Flowers Hill	113
	TI	-	FSB	Fourth Cliff	114

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation	Purpose	Type	Termination of Each Circuit	Loc.	Check
of	of	of	:	:	
Installation	Telephone	Phone	Installation	Place	No.: Column

FOURTH CLIFF, LOCATION NO. 114 (cont'd)

Site 1C

FSB	Orders	TS	BC2	Fourth Cliff	114
Battery #2 (Const.#208)	BD-74	TS	FSB	Fourth Cliff	114
	Post	Wall	PSB #1	Flowers Hill	113
	TI	-	FSB	Fourth Cliff	114
Battery #2 (Const.#208)	Orders	2HSO	BC2	Fourth Cliff	114
	Range	2HSO	P2	Fourth Cliff	114
	Azimuth	2HSO	P2	Fourth Cliff	114
	RF	2TSO	FSB	Fourth Cliff	114
	TI	-	FSD	Fourth Cliff	114
P2 (Const.#208)	Orders	HS	BC2	Fourth Cliff	114
	Intelligence	HS	BC2 & OP's	Fourth Cliff	114
	Range Off.	TS	BC2	Fourth Cliff	114
	Radio	TS	FSB	Fourth Cliff	114
	Armsetters	2HS	FSD	Fourth Cliff	114
	Spotting	2HS	FSD	Fourth Cliff	114
	Range	HS	Guns 1 & 2	Fourth Cliff	114
	Azimuth	HS	Guns 1 & 2	Fourth Cliff	114
	Swb. Opr.	HS	DD 95 (P2)	Fourth Cliff	114
	Post	Wall	PSB #1	Flowers Hill	113
	TI	-	FSD	Fourth Cliff	114

Site 1D

B ² S ²	Observer	HS	P5	Fort Duvall	118
5 5	Reader	HS	P5	Fort Duvall	118
(Long)	Spotter	HS	P5	Fort Duvall	118
	TI	-	FSB	Fort Revere	119
	Post	Wall	PSB #1	Flowers Hill	113
B ³ S ³	Observer	HS	P2	Fourth Cliff	114
2 2	Reader	HS	P2	Fourth Cliff	114
(Const.#208)	Spotter	HS	P2	Fourth Cliff	114
	TI	-	FSB	Fourth Cliff	114
	Post	Wall	PSB #1	Flowers Hill	113
B ⁴ S ⁴	Observer	HS	P1	Flowers Hill	113
1 1	Reader	HS	P1	Flowers Hill	113
(Const.#106)	Spotter	HS	P1	Flowers Hill	113
	TI	-	FSB	Flowers Hill	113
SL 7P	Ord. & Int.	HS	G1-CP	Point Allerton	120
SL 8P	Ord. & Int.	HS	G2-CP	Strawberry Pt.	115
2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-50cal.(AA)	Ord. & Int.	HS	AACP	Fort Banks	128

S E C R E T

S E C R E T

Form #40. Annex B.

H.D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation :	Purpose :	Type :	Termination of Each Circuit :		: Loc. :	: Check :
of :	of :	of :	:	:	:	:
Installation :	Telephone :	Phone :	Installation :	Place :	No. :	Column :

STRAWBERRY POINT, LOCATION NO. 115

Site 1A

B ₁₁ S ₅₅ (Const.#106)	Observer	HS	P1	Flowers Hill	113
	Reader	HS	P1	Flowers Hill	113
	Spotter	HS	P1	Flowers Hill	113
	TI	-	FSB	Flowers Hill	113
	Post	Wall	PSB #1	Flowers Hill	113
B ₁₃ S ₁₁ (Const.#207)	Observer	HS	P13	Fort Dawes	127
	Reader	HS	P13	Fort Dawes	127
	Spotter	HS	P13	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
	Post	Wall	PSB #1	Flowers Hill	113
B ₁₅ S ₁₁ (Const.#206)	Observer	HS	P15	East Point	131
	Reader	HS	P15	East Point	131
	Spotter	HS	P15	East Point	131
	TI	-	FSB	East Point	131
AAIS OP-5	Observer	EE8	AACP	Fort Banks	128

Site 1B

G2-CP & OP	Orders	TS	G1-CP	Point Allerton	120
	Intelligence	HS	G1-CP	Point Allerton	120
	Orders	HS	BC2	Fourth Cliff	114
	Intelligence	HS	BC2	Fourth Cliff	114
	Orders	HS	BC11	Outer Brewster	126
	Intelligence	HS	BC11	Outer Brewster	126
	Observer	HS	G2-OP	Strawberry Pt.	115
	Orders	HS	SL 8,10,12 & 17 (FSB)	Fourth Cliff	114
	Radio	TS	FSB	Fourth Cliff	114
	Post	Wall	PSB #1	Flowers Hill	113
	TI	-	FSB	Fourth Cliff	114
	B ₁₂ S ₃₃ (Const.#105)	Observer	HS	P12	Fort Dawes
Reader		HS	P12	Fort Dawes	127
Spotter		HS	P12	Fort Dawes	127
TI		-	FSB	Fort Dawes	127
B ₂₂ S ₄₄ (Const.#208)	Observer	HS	P2	Fort Duvall	118
	Reader	HS	P2	Fort Duvall	118
	Spotter	HS	P2	Fort Duvall	118
	TI	-	FSB	Fort Duvall	118

Site 1C

B ₁₄ S ₁₁ (Gardner)	Observer	HS	P14	Fort Ruckman	130
	Reader	HS	P14	Fort Ruckman	130
	Spotter	HS	P14	Fort Ruckman	130
	TI	-	FSB	Fort Ruckman	130
Post	Wall	PSB #1	Flowers Hill	113	

S E C R E T

S E C R E T

Form #40, Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation :	Purpose :	Type :	Termination of Each Circuit :		
of :	of :	of :	:	:	:Loc.: Check
Installation :	Telephone :	Phone :	Installation :	Place :	No.: Column

STRAWBERRY POINT, LOCATION NO. 115 (cont'd)

Site 1C (contd)

B ³ ₅ S ³ ₅	Observer	HS	P5	Fort Duvall	118
	Reader	HS	P5	Fort Duvall	118
(Long)	Spotter	HS	P5	Fort Duvall	118
	TI	-	FSB	Fort Revere	119

Site 1D

C ₁ ² -OP	Observer	HS	C1-CP	Point Allerton	120
	Reader	HS	C1-CP	Point Allerton	120
	Post	Wall	FSB	Flowers Hill	113
B ₁₁ ² S ₁₁ ²	Observer	HS	P11	Outer Brewster	126
	Reader	HS	P11	Outer Brewster	126
	(Const.#209) Spotter	HS	P11	Outer Brewster	126
	TI	-	FSB	Outer Brewster	126
B ₁₆ ² S ₁₆ ²	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
	(Const.#104) Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131
SL 9P	Ord. & Int.	HS	C1-CP	Point Allerton	120
SL 10P	Ord. & Int.	HS	G2-CP	Strawberry Pt.	115
2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-.50cal.(AA)	Ord. & Int.	HS	AACP	Fort Banks	128

STRAWBERRY HILL, LOCATION NO. 116

Site 1A

B ₁₀ ¹ S ₁₀ ¹	Observer	HS	P10	Fort Standish	123
	Reader	HS	P10	Fort Standish	123
	(Whipple) Spotter	HS	P10	Fort Standish	123
	TI	-	FSB	Fort Standish	123
	Post	Wall	PSB #1	Flowers Hill	113
AAS OP-6	Observer	EE8	AACP	Fort Banks	128
SL 11P	Ord. & Int.	HS	G2-CP	Point Allerton	120
SL 12P	Ord. & Int.	HS	C1-CP	Strawberry Pt.	115
AASL (1st Platoon)	Orders	HS	AACP	Fort Banks	128
	Intelligence	HS	AACP	Fort Banks	128

FORT ANDREWS, LOCATION NO. 117

Site 1A

B ₄ ¹ S ₄ ¹	Observer	HS	P4	Fort Andrews	117
	Reader	HS	P4	Fort Andrews	117
	(McCook) Spotter	HS	P4	Fort Andrews	117
	TI	-	FSB	Fort Andrews	117
	Post	Wall	PSB #2	Fort Banks	128

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation	Purpose	Type	Termination of Each Circuit	Loc.	Check
of	of	of	:	:	:
Installation	Telephone	Phone	Installation	Place	No.: Column

FORT ANDREWS, LOCATION NO. 117 (cont'd)

Site 1B

P4 (McCook)	Orders	HS	BC4	Fort Andrews	117
	Intelligence	HS	BC4 & OP's	Fort Andrews	117
	Range Off.	TS	BC4	Fort Andrews	117
	Radio	TS	FSB	Fort Andrews	117
	Armsetters	2HS	FSB	Fort Andrews	117
	Spotting	2HS	PSB	Fort Andrews	117
	Range	HS	Guns 1 & 2	Fort Andrews	117
	Azimuth	HS	Guns 1 & 2	Fort Andrews	117
	Swb. Opr.	HS	DD 95 (PR)	Fort Andrews	117
	Post	Wall	PSB #2	Fort Banks	128
TI	-	FSB	Fort Andrews	117	

BC 4 (McCook)	Orders	TS	MG1-CP	Fort Warren	121
	Intelligence	HS	MG1-CP	Fort Warren	121
	Orders	TS	P4 & Guns	Fort Andrews	117
	Observer	HS	P4 & OP's	Fort Andrews	117
	Reader	HS	FSB	Fort Andrews	117
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Andrews	117

Site 1C

RF3 & BC3 (Bumpus)	Ord. & Int.	TS	MG1-CP	Fort Warren	121
	Range	HS	Guns 1 & 2	Fort Andrews	117
	Post	Wall	PSD #2	Fort Banks	128

Site 1D

Battery #3 (Bumpus)	Range	2HSO	BC3 & RF3	Fort Andrews	117
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Site 1E

Battery #4 (McCook)	Orders	2HSO	BC4	Fort Andrews	117
	Range	2HSO	P4	Fort Andrews	117
	Azimuth	2HSO	P4	Fort Andrews	117
	RF	2TSO	FSB	Fort Andrews	117
	TI	-	FSD	Fort Andrews	117

Site 1F

SL 15F	Ord. & Int.	HS	C2-CP	Fort Warren	121
	Post	Wall	PSB #2	Fort Banks	128

Site 1G

FSB	Orders	HS	BC4	Fort Andrews	117
	DD 74	TS	FSD	Fort Andrews	117
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSD	Fort Andrews	117

S E C R E T

S E C R E T

Form #40. Annex D.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation :	Purpose :	Type :	Termination of Each Circuit :		
of :	of :	of :	:	:Loc.:	Check
Installation :	Telephone :	Phone :	Installation :	Place :	No.:Column

FORT ANDREWS, LOCATION NO. 117 (cont'd)

Site 1G (cont'd)

2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-.55cal.(AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-37mm	Orders	HS	SD-CP	Fort Warren	121
(Anti-MTB)	Intelligence	HS	SD-CP	Fort Warren	121

FORT DUVALL, LOCATION NO. 118

Site 1A

P5	Orders	HS	BC5	Point Allerton	120
(Long)	Intelligence	HS	BC5 & OP's	Point Allerton	120
	Range Off.	TS	BC5	Point Allerton	120
	Radio	HS	FSB	Fort Revere	119
	Armsetters	2HS	FSB	Fort Revere	119
	Spotting	2HS	FSB	Fort Revere	119
	Range	HS	Guns 1 & 2	Fort Duvall	118
	Azimuth	HS	Guns 1 & 2	Fort Duvall	118
	Checkback	2TS	Guns 1 & 2	Fort Duvall	118
	Ammunition	TS	Magazine	Fort Duvall	118
	Swbd. Opr.	HS	BD 95 (P5)	Fort Duvall	118
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Revere	119
Magazine					
(Long)	Ammunition	HS	P5	Fort Duvall	118
Battery #5	Orders	2HS0	BC5	Point Allerton	120
(Long)	Range	2HS0	P5	Fort Duvall	118
	Azimuth	2HS0	P5	Fort Duvall	118
	Checkback	2TS0	P5	Fort Duvall	118
	TI	-	FSB	Fort Revere	119

FORT REVERE, LOCATION NO. 119

Site 1A

M ₁ ² R & M ₁ ² L	Ord. & Int.	2HS	M1-CP	Fort Warren	121
	Reader	2HS	P-M1	Fort Warren	121
	TI	-	FSB	Fort Revere	119
	Post	Wall	PSB #1	Flowers Hill	113

Site 1B

AA Btry. #1	Orders	HS	AACP	Fort Banks	128
	Intelligence	HS	AACP	Fort Banks	128

Site 1C

SL 14F	Ord. & Int.	HS	MGI-CP	Fort Warren	121
	Post	Wall	PSB #1	Flowers Hill	113

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation of Installation	Purpose of Telephone	Type of Phone	Termination of Each Circuit Installation	Place	: Loc. : : No. : : Column
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FORT REVERE, LOCATION NO. 119 (cont'd)

Site 1D

SL Shed	Post	Wall	PSB #1	Flowers Hill	113
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Site 1E

FSB (Long)	Orders	TS	BC5	Point Allerton	120
	BD-74	TS	FSB	Fort Revere	119
	Post	Wall	PSB #1	Flowers Hill	113
	TI	-	FSB	Fort Revere	119
2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-.50cal.(AA)	Ord. & Int.	HS	AACP	Fort Banks	128

POINT ALLERTON, LOCATION NO. 120

Site 1A

B ₁₁ ^{3 3} 11 (Const.#209)	Observer	HS	P11	Outer Brewster	126
	Reader	HS	P11	Outer Brewster	126
	Spotter	HS	P11	Outer Brewster	126
	TI	-	FSB	Outer Brewster	126
	Post	Wall	PSB #1	Flowers Hill	113
B ₁₃ ^{2 2} 13 (Const.#207)	Observer	HS	P13	Fort Dawes	127
	Reader	HS	P13	Fort Dawes	127
	Spotter	HS	P13	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
B ₁₆ ^{3 3} 16 (Const.#104)	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
	Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131
AAIS OP7	Observer	EEB	AACP	Fort Banks	128

Site 2A

C ₁ -CP & C ₃ -CP 1	Orders	TS	SD-CP	Fort Warren	121
	Intelligence	HS	SD-CP	Fort Warren	121
	Orders	HS	G1-CP	Fourth Cliff	114
	Intelligence	HS	G1-CP	Fourth Cliff	114
	Orders	HS	G2-CP	Strawberry Pt.	115
	Intelligence	HS	G2-CP	Strawberry Pt.	115
	Radio	TS	FSB	Fort Revere	119
	Orders	HS	SL 1,4,6,7,9, 11,13,16(FSB)	Fort Revere	119
	Post	Wall	PSB #1	Flowers Hill	113
	B ₅ ^{4 4} 5 (Long)	Observer	HS	P5	Fort Duvall
Reader		HS	P5	Fort Duvall	118
Spotter		HS	P5	Fort Duvall	118
TI		-	FSB	Fort Revere	119

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : of : Installation :	Purpose : of : Telephone :	Type : of : Phone :	Termination of Each Circuit : : : Installation :	Place : : : :	Loc. : : : No.:	Check Column
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POINT ALLERTON, LOCATION NO. 120 (cont'd)

Site 2A (cont'd)

BC5 (Long)	Orders	TS	G1-CP	Fourth Cliff	114
	Intelligence	HS	G1-CP	Fourth Cliff	114
	Orders	TS	P5 & Guns	Fort Duvall	118
	Observer	HS	P5 & OP's	Fort Duvall	118
	Reader	HS	P5	Fort Duvall	118
	Post	Wall	PSB #1	Flowers Hill	113
	TI	-	FSB	Fort Revere	119
B ^{2S 2} 14 14 (Gardner)	Observer	HS	P14	Fort Ruckman	130
	Reader	HS	P14	Fort Ruckman	130
	Spotter	HS	P14	Fort Ruckman	130
	TI	-	FSB	Fort Ruckman	130

Site 3A

B ^{4S 4} 12 12 (Const.#105)	Observer	HS	P12	Fort Dawes	127
	Reader	HS	P12	Fort Dawes	127
	Spotter	HS	P12	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
	Post	Wall	PSB #1	Flowers Hill	113
B ^{2S 2} 15 15 (Const.#206)	Observer	HS	P15	East Point	131
	Reader	HS	P15	East Point	131
	Spotter	HS	P15	East Point	131
	TI	-	FSB	East Point	131
SL 13P	Ord. & Int.	HS	C1-CP	Point Allerton	120
2nd Platoon (AASL)	Orders	HS	AACP	Fort Banks	128
	Intelligence	HS	AACP	Fort Banks	128
2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-.50cal.(AA)	Ord. & Int.	HS	AACP	Fort Banks	128

FORT WARREN, LOCATION NO. 121

Site 1A

MG1-CP & OP	Orders	TS	C2-CP	Fort Warren	121
	Intelligence	HS	C2-CP	Fort Warren	121
	Ord. & Int.	HS	BC4	Fort Andrews	117
	Ord. & Int.	HS	BC3	Fort Andrews	117
	Ord. & Int.	HS	BC9	Fort Standish	123
	Ord. & Int.	HS	BC6	Fort Strong	122
	Orders	HS	SL 14 & 18 (FSB)	Fort Warren	121
	Orders	TS	M1	Fort Warren	121
	Post	Wall	PSB #2	Fort Banks	128

Site 1B

M1-Storehouse Post	Wall	PSD #2	Fort Banks	128
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S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : Purpose : Type: Termination of Each Circuit :	of : of : of : :	: Loc. : Check
Installation : Telephone : Phone: Installation : Place :	: No. : Column	

FORT WARREN, LOCATION NO. 121 (cont'd)

Site 1C

M ₁ -Casemate	Ord. & Int.	HS	M ₁ -CP	Fort Warren	121
	Orders	HS	PM ₁	Fort Warren	121
	Post	Wall	PSB #2	Fort Banks	128

Site 1D

SD-CP	Orders	TS	H	Fort Banks	128
	Intelligence	HS	H	Fort Banks	128
	Ord. & Int.	TS	HECP	Fort Dawes	127
	Ord. & Int.	HS	C ₁ -CP	Point Allerton	120
	Ord. & Int.	HS	C ₂ -CP	Fort Warren	121
	Ord. & Int.	HS	C ₃ -CP	Fort Ruckman	130
	Observer	HS	SD-CP	Fort Warren	121
	Ord. & Int.	HS	(Anti-MTB)FSB	Fort Warren	121
	Post	Desk	PSB #2	Fort Banks	128
SD-CP	Observer	HS	SD-CP	Fort Warren	121
	Reader	HS	SD-CP	Fort Warren	121
	TI	-	FSB	Fort Warren	121
C ₂ -CP	Orders	TS	SD-CP	Fort Warren	121
	Intelligence	HS	SD-CP	Fort Warren	121
	Orders	TS	HECP	Fort Dawes	127
	Intelligence	HS	HECP	Fort Dawes	127
	Ord. & Int.	HS	MG ₁ -CP	Fort Warren	121
	Ord. & Int.	HS	MG ₂ -CP	Fort Warren	121
	Observer	HS	C ₂ -CP	Fort Warren	121
	Orders	HS	SL 15,19,20, 22 (FSB)	Fort Warren	121
	Radio	TS	FSB	Fort Warren	121
	Post	Wall	PSB #2	Fort Banks	128
	C ₂ ¹ -CP	Observer	HS	C ₂ -CP	Fort Warren
Reader		HS	C ₂ -CP	Fort Warren	121
AAIS OP8	Observer	EE8	AACP	Fort Banks	128

Site 1E

M ₁ -CP	Orders	HS	M ₁ ¹ R & L	Fort Warren	121
	Orders	HS	M ₁ ² R & L	Fort Revere	119
	Ord. & Int.	HS	M ₁ ¹ C	Fort Warren	121
M ₁ ¹ R & L	Observer	2HS	M ₁ CP	Fort Warren	121
	Reader	2HS	M ₁ P	Fort Warren	121
	TI	-	FSB	Fort Warren	121

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : of :	Purpose : of :	Type : of :	Termination of Each Circuit : Installation :	Place :	: Loc. : Check : No. : Column
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FORT WARREN, LOCATION NO. 121 (cont'd)

Site 1-E (cont'd)

M ₁ -P-M ₁	Armsetter	HS	M ₁ ¹	Fort Warren	121
	Armsetter	HS	M ₂ ²	Fort Revere	119
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Warren	121

Site 1-F

SL 18F	Ord. & Int.	HS	MG ₁ -CP	Fort Warren	121
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Site 1-G

FSB	Orders	TS	MG ₁ -CP	Fort Warren	121
	BD 74	TS	FSB	Fort Warren	121
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Warren	121
2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-.50cal(AA)	Ord. & Int.	HS	AACP	Fort Banks	128

FORT STRONG, LOCATION NO. 122

Site 1A

Battery #6 (Stevens)	Range	2HSO	CRF ₆	Fort Strong	122
BC ₆ & RF ₆ (Stevens)	Ord. & Int.	TS	MG ₁ -CP	Fort Warren	121
	Range	HS	Guns 1 & 2	Fort Strong	122
	Post	Wall	PSB #2	Fort Banks	128

Site 1B

Battery #8 (Taylor)	Range	2HSO	CRF ₈	Fort Strong	122
BC ₈ & RF ₈	Ord. & Int.	TS	MG ₂ -CP	Fort Dawes	127
	Range	HS	Guns 1 & 2	Fort Strong	122
	Post	Wall	PSB #2	Fort Banks	128

Site 1C

AA Btry. #3	Intelligence	HS	AACP	Fort Banks	128
	Orders	HS	AACP	Fort Banks	128
	Post	Wall	PSB #2	Fort Banks	128

Site 1D

M ₂ Storehouse Post	Wall	PSB #2	Fort Banks	128
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S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : of : Installation :	Purpose : of : Telephone :	Type : of : Phone :	Termination of Each Circuit : : : Installation :	Place : : : No. :	Check Column
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FORT STRONG, LOCATION NO. 122 (cont'd)

Site 1E

M ₂ Casemate	Ord. & Int.	HS	PM ₂	Fort Standish	123
	Orders	HS	M ₂ -CP	Fort Standish	123
	Post	Wall	PSB #2	Fort Banks	128

Site 1F

Battery #7 (Basinger)	Range	2HSO	CRF ₇	Fort Strong	122
BC ₇ & RF ₇	Ord. & Int.	TS	MG2-CP	Fort Dawes	127
	Range	HS	Guns 1 & 2	Fort Strong	122
(Basinger)	Post	Wall	PSB #2	Fort Banks	128

Site 1G

SL 19F	Ord. & Int.	HS	C ₂ -CP	Fort Warren	121
	Post	Wall	PSB #2	Fort Banks	128

Site 1H

FSB	Orders	TS	MG2-CP	Fort Dawes	127
	BD 74	TS	FSB	Fort Strong	122
	Post	Wall	PSB #2	Fort Banks	128
4-37mm (Anti-MTB)	Orders	HS	SDCP	Fort Warren	121
	Intelligence	HS	SDCP	Fort Warren	121

FORT STANDISH, LOCATION NO. 123

Site 1A

Battery #9 (Williams)	Range	3HSO	CRF ₉	Fort Standish	123
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Site 1B

BC ₉ & RF ₉	Orders	HS	MG1-CP	Fort Warren	121
	Range	HS	Guns 1 & 2	Fort Standish	123
(Williams)	Post	Wall	PSB #2	Fort Banks	128

Site 1C

Battery #10 (Whipple)	Orders	2HSO	DC10	Fort Standish	123
	Range	2HSO	P10	Fort Standish	123
	Azimuth	2HSO	P10	Fort Standish	123
	RF	2TSO	P10	Fort Standish	123
	TI	-	FSB	Fort Standish	123

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation :	Purpose :	Type :	Termination of Each Circuit :	Loc. :	Check
of :	of :	of :	:	:	:
Installation :	Telephone :	Phone :	Installation :	Place :	No. : Column

FORT STANDISH, LOCATION NO. 123 (cont'd)

Site 1D

EF 10	Ord. & Int.	TS	BC10	Fort Standish	123
(Whipple)	Range	HS	Guns 1 & 2	Fort Standish	123
	Azimuth	HS	Guns 1 & 2	Fort Standish	123
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Standish	123

Site 1E

B ² _S ²	Observer	HS	P10	Fort Standish	123
10 10 (Whipple)	Reader	HS	P10	Fort Standish	123
	Spotter	HS	P10	Fort Standish	123
	TI	-	FSB	Fort Standish	123
	Post	Wall	PSB #2	Fort Banks	128

Site 1F

AA Battery #2	Intelligence	HS	AACF	Fort Banks	128
	Orders	HS	AACF	Fort Banks	128
	Post	Wall	PSB #2	Fort Banks	128

Site 1G

M2-CP	Orders	HS	M ₂ ¹ R & C	Fort Dawes	127
	Orders	HS	M ₂ ² R & L	Fort Standish	123
	Ord. & Int.	HS	M2-C	Fort Strong	122
M ₂ ² R & L	Observer	2HS	M2-CP	Fort Standish	123
	Reader	2HS	M ₂ ² -P	Fort Standish	123
	TI	-	FSB	Fort Standish	123
M ₂ P	M ₂ ¹ Armsetter	HS	M ₂ ¹ R & L	Fort Dawes	127
	M ₂ ² Armsetter	HS	M ₂ ² R & L	Fort Standish	123
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Standish	123

Site 1H

PR10	Orders	HS	BC10	Fort Standish	123
(Whipple)	Intelligence	HS	BC10 & OP's	Fort Standish	123
	Range Off.	TS	BC10	Fort Standish	123
	Radio	TS	FSB	Fort Standish	123
	Armsotter	2HS	FSB	Fort Standish	123
	Spotting	2HS	FSB	Fort Standish	123
	Range	HS	Guns 1 & 2	Fort Standish	123
	Azimuth	HS	Guns 1 & 2	Fort Standish	123
	Swbd. Opr.	HS	FSB	Fort Standish	123
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Standish	123

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation :	Purpose :	Type :	Termination of Each Circuit :	Loc. :	Check
of :	of :	of :	:	:	:
Installation :	Telephone :	Phone :	Installation :	Place :	No. : Column

FORT STANDISH, LOCATION NO. 123 (cont'd)

Site 1H

BC10 (Whipple)	Orders	TS	MG2-CP	Fort Dawes	127
	Intelligence	HS	MG2-CP	Fort Dawes	127
	Orders	TS	P10 & Guns	Fort Standish	123
	Observer	HS	P10 & OP's	Fort Standish	123
	Reader	HS	FSB	Fort Standish	123
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Standish	123

Site 1I

SL 20F	Ord. & Int.	HS	G2-CP	Fort Warren	121
	Post	Wall	PSB #2	Fort Banks	128

Site 1J

FSD	Orders	TS	BC10	Fort Standish	123
	BD 74	TS	FSB	Fort Standish	123
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Standish	123

2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-.50 cal(AA)	Ord. & Int.	HS	AACP	Fort Banks	128

CALF ISLAND, LOCATION NO. 125

4-.50 cal(AA)	Ord. & Int.	HS	AACP	Fort Banks	128
2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
	Post	Wall	PSB #2	Fort Banks	128

OUTER BREWSTER, LOCATION NO. 126

Site 1A

BC11 (Const.#209)	Orders	TS	G2-CP	Strawberry Pt.	115
	Intelligence	HS	G2-CP	Strawberry Pt.	115
	Orders	TS	P11 & Guns	Outer Brewster	126
	Observer	HS	P11 & OP's	Outer Brewster	126
	Reader	HS	FSB	Outer Brewster	126
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Outer Brewster	126

B ⁴ ₁₁ S ⁴ ₁₁ (Const.#209)	Reader	HS	P11	Outer Brewster	126
	Observer	HS	P11	Outer Brewster	126
	Spotter	HS	P11	Outer Brewster	126
	TI	-	FSB	Outer Brewster	126

AAIS OP9	Observer	EE8	AACP	Fort Banks	128
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S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : of :	Purpose : of :	Type : of :	Termination of Each Circuit : :	:Loc.: Check : No.: Column
Installation :	Telephone :	Phone :	Installation :	Place :

OUTER BREWSTER, LOCATION NO. 126 (cont'd)

Site 1B

P11 (Const.#209)	Orders	HS	BC11	Outer Brewster	126
	Intelligence	HS	BC11 & OP's	Outer Brewster	126
	Range Off.	TS	B11	Outer Brewster	126
	Radio	TS	FSB	Outer Brewster	126
	Armsetters	2HS	FSB	Outer Brewster	126
	Spotting	2HS	FSB	Outer Brewster	126
	Range	HS	Guns 1 & 2	Outer Brewster	126
	Azimuth	HS	Guns 1 & 2	Outer Brewster	126
	Swbd. Opr.	HS	BD 95 (P11)	Outer Brewster	126
	Post	Wall	PSB #2	Fort Banks	128
TI	-	FSB	Outer Brewster	126	
FSB (Battery #11)	Orders	TS	BC11	Outer Brewster	126
	BD 74	TS	FSB	Outer Brewster	126
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Outer Brewster	126
Battery #11 (Const.#209)	Orders	2HSO	BC11	Outer Brewster	126
	Range	2HSO	P11	Outer Brewster	126
	Azimuth	2HSO	P11	Outer Brewster	126
	RF	2TSO	FSB	Outer Brewster	126
	TI	-	FSB	Outer Brewster	126
SL 16P	Ord. & Int.	HS	C1-CP	Point Allerton	120
SL 17P	Ord. & Int.	HS	G2-CP	Strawberry Pt.	115
4-.50cal(AA)	Ord. & Int.	HS	AACP	Fort Banks	128
2-37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128

FORT DAWES, LOCATION NO. 127

Site 1A

SL 21F	Ord. & Int.	HS	MG2-CP	Fort Dawes	127
	Post	Wall	PSB #2	Fort Banks	128

Site 1B

FSB (Const.#105 and #207)	Orders	TS	BC12 and 13	Fort Dawes	127
	BD 74	TS	FSB	Fort Dawes	127
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Dawes	127
P12 (Const.#105)	Orders	HS	BC12	Fort Dawes	127
	Intelligence	HS	BC12 & OP's	Fort Dawes	127
	Range Off.	TS	BC12	Fort Dawes	127
	Radio	HS	FSB	Fort Dawes	127
	Armsetters	2HS	FSB	Fort Dawes	127
	Spotting	2HS	FSB	Fort Dawes	127
	Range	HS	Guns 1 & 2	Fort Dawes	127
	Azimuth	HS	Guns 1 & 2	Fort Dawes	127

S E C R E T

S E C R E T

Form #40, Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation of Installation	Purpose of Telephone	Type of Phone	Termination of Each Circuit : : Installation	Place	:Loc.: Check : No.: Column
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FORT DAWES, LOCATION NO. 127 (cont'd)

Site 1B (cont'd)

P12 (Const.#105) (cont'd)	Checkback Ammunition Swbd. Opr. Post TI	2TS TS HS Wall -	Guns 1 & 2 Battery magaz. BD 95 (P12) FSB #2 FSB	Fort Dawes Fort Dawes Fort Dawes Fort Banks Fort Dawes	127 127 127 128 127
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Battery #12 (Const.#105)	Orders Range Azimuth Checkback TI	2HSO 2HSO 2HSO 2TSO -	BC12 P12 P12 P12 FSB	Fort Dawes Fort Dawes Fort Dawes Fort Dawes Fort Dawes	127 127 127 127 127
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Magazine (Const.#105)	Ammunition	HS	P12	Fort Dawes	127
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Site 1C

P13 (Const.#207)	Orders Intelligence Range Off. Radio Armsetters Spotting Range Azimuth Swbd. Opr. Post TI	HS HS TS TS 2HS 2HS HS HS HS Wall -	BC13 BC13 & OP's BC13 FSB FSB FSB Guns 1 & 2 Guns 1 & 2 BD 95 (P13) FSB #2 FSB	Fort Dawes Fort Dawes Fort Dawes Fort Dawes Fort Dawes Fort Dawes Fort Dawes Fort Dawes Fort Dawes Fort Banks Fort Dawes	127 127 127 127 127 127 127 127 127 128 127
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Battery #13 (Const.#207)	Orders Range Azimuth RF TI	2HSO 2HSO 2HSO 2TSO -	BC13 P13 P13 FSB FSB	Fort Dawes Fort Dawes Fort Dawes Fort Dawes Fort Dawes	127 127 127 127 127
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Site 1D

B ₄ S ₄ ^{2 2} (McCook)	Observer Reader Spotter TI Post	HS HS HS - Wall	P4 P4 P4 FSB FSB #2	Fort Andrews Fort Andrews Fort Andrews Fort Andrews Fort Banks	117 117 117 117 128
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Site 1E

BC12 (Const.#105)	Orders Intelligence Orders Observer Reader Post TI	TS HS TS HS HS Wall -	G4-CP G4-CP P12 & Guns P12 & OP's FSB FSB #2 FSB	East Point East Point Fort Dawes Fort Dawes Fort Dawes Fort Banks Fort Dawes	131 131 127 127 127 128 127
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S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : of : Installation :	Purpose : of : Telephone :	Type : of : Phone :	Termination of Each Circuit : Installation : Place :	Loc. : No. : Column :	Check
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FORT DAWES, LOCATION NO. 127 (cont'd)

Site 1F

B ₃ S ₃ 13 13 (Const.#207)	Observer	HS	P13	Fort Dawes	127
	Reader	HS	P13	Fort Dawes	127
	Spotter	HS	P13	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
	Post	Wall	PSB #2	Fort Banks	128

Site 1G

BC13 (Const.#207)	Orders	TS	G3-CP	East Point	131
	Intelligence	HS	G3-CP	East Point	131
	Orders	TS	P13 & Guns	Fort Dawes	127
	Observer	HS	P13 & OP's	Fort Dawes	127
	Reader	HS	FSB	Fort Dawes	127
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Dawes	127

AAIS OP10	Observer	EE8	AACP	Fort Banks	128
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Site 1H

M ₂ R & L	Orders	2HS	M2-CP	Fort Standish	123
	Observers	2HS	M2-P	Fort Standish	123
	TI	-	FSB	Fort Dawes	127

Site 1I

MG ₂ -CP	Orders	TS	C2-CP	Fort Warren	121
	Intelligence	HS	C2-CP	Fort Warren	121
	Ord. & Int.	HS	BC7	Fort Strong	122
	Ord. & Int.	HS	BC8	Fort Strong	122
	Ord. & Int.	HS	BC10	Fort Standish	123
	Orders	HS	SL 21 & 22 (FSB)	Fort Dawes	127
	Orders	TS	PM2	Fort Standish	123
	Post	Wall	PSB #2	Fort Banks	128

B ₃ S ₃ 10 10 (Whipple)	Observer	HS	P10	Fort Standish	123
	Reader	HS	P10	Fort Standish	123
	Spotter	HS	P10	Fort Standish	123
	TI	-	FSB	Fort Standish	123

C ₃ ¹ -CP	Observer	HS	C3-CP	Fort Ruckman	130
	Reader	HS	C3-CP	Fort Ruckman	130
	Post	Wall	PSB #2	Fort Banks	128

Site 1J

HECP	Ord. & Int.	HS	SDCP	Fort Warren	121
	Intelligence	HS	Naval Dist. thru FSB	Fort Dawes	127

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation	Purpose	Type	Termination of Each Circuit	Loc.	Check
of	of	of	:	No.	Column
Installation	Telephone	Phone	Installation	Place	

FORT DAWES, LOCATION NO. 127 (cont'd)

Site 1J (cont'd)

HECP (cont'd)	Intelligence	HS	Inshore Patrol thru FSB	Fort Dawes	127
	Orders	HS	Alert (C ₂ -CP)	Fort Warren	121
	Intelligence	HS	Alert (C ₂ -CP)	Fort Warren	121
	Orders	HS	SL (C ₂ -CP)	Fort Warren	121
	Post	Wall	PSB #2	Fort Banks	128

Site 1K

SL 22F	Ord. & Int.	HS	MG ₂ -CP	Fort Standish	123
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Site 1L

Magazine	Post	Wall	PSB #2	Fort Banks	128
3d Platoon (AASL)	Orders	HS	AACP	Fort Banks	128
	Intelligence	HS	AACP	Fort Banks	128
4-.50cal(AA)	Ord. & Int.	HS	AACP	Fort Banks	128
2-.37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-.37mm (Anti.P.T.)	Orders	HS	SDCP	Fort Warren	121
	Intelligence	HS	SDCP	Fort Warren	121

FORT BANKS, LOCATION NO. 128

Site 1A

H & AACP & Radio	Orders	Tel-type	N.E.Sector FCB	Fort Banks	128
	Intelligence	Tel-type	N.E.Sector FCB	Fort Banks	128
	Orders	HS	SDCP	Fort Warren	121
	Intelligence	TS	SDCP	Fort Warren	121
	Ord. & Int.	HS	Navy Dist.FCB	Fort Banks	128
	Ord. & Int.	HS	Beach Defense FCB	Fort Banks	128
	Intelligence	2HS	AAIS-OP's	FSB Ft. Banks	128
	Intelligence	2HS	AWS-OP's	FSB Ft. Banks	128
	Ord. & Int.	HS	AASL-Plot.	FSB Ft. Banks	128
	Ord. & Int.	2HS	AA Btrys	FSB Ft. Banks	128
	Ord. & Int.	2HS	Autoweapons	FSB Ft. Banks	128
	Radio	HS	FSB	Fort Banks	128
	Post	3 Desk	PSD #2 (H-AACPO Radio)	Fort Banks	128
	Post	Wall	PSD #2(S3)	Fort Banks	128
FSB & PSB	Orders	TS	HDGP	Fort Banks	128
	BD 74	TS	FSB	Fort Banks	128
	Post	Wall	PSB #2	Fort Banks	128
	TI	-	FSB	Fort Banks	128

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation :	Purpose :	Type :	Termination of Each Circuit :	Loc. :	Check
of :	of :	of :	:	:	:
Installation :	Telephone :	Phone :	Installation :	Place :	No. : Column

FORT BANKS, LOCATION NO. 128. (cont'd)

Site 1A (cont'd)

4-.50cal(AA)	Ord. & Int.	HS	AACP	Fort Banks	128
2-.37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128

FORT HEATH, LOCATION NO. 129

Site 1A

B ³ S ³	Observer	HS	P4	Fort Andrews	117
4 4	Reader	HS	P4	Fort Andrews	117
(McCook)	Spotter	HS	P4	Fort Andrews	117
	TI	-	FSB	Fort Andrews	117
	Post	Wall	PSB #2	Fort Banks	128

AAIS OP11	Observer	EE3	AACP	Fort Banks	128
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FORT RUCKMAN, LOCATION NO. 130

Site 1A

C3-CP	Orders	TS	SDCP	Fort Warren	121
	Intelligence	HS	SDCP	Fort Warren	121
	Orders	HS	G3-CP	East Point	131
	Intelligence	HS	G3-CP	East Point	131
	Orders	HS	G4-CP	East Point	131
	Intelligence	HS	G4-CP	East Point	131
	Observer	HS	C3-OP's(FSB)	Fort Ruckman	130
	Orders	2HS	SL 25,26,28, 30,32,34(FSB)	Fort Ruckman	130
	Radio	TS	FSB	Fort Ruckman	130
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	Fort Ruckman	130
B ⁴ S ⁴	Observer	HS	P10	Fort Standish	123
10 10	Reader	HS	P10	Fort Standish	123
(Whipple)	Spotter	HS	P10	Fort Standish	123
	TI	-	FSB	Fort Standish	123
B ⁴ S ⁴	Observer	HS	P4	Fort Andrews	117
4 4	Reader	HS	P4	Fort Andrews	117
(McCook)	Spotter	HS	P4	Fort Andrews	117
	TI	-	FSB	Fort Andrews	117
BC14	Orders	TS	G4-CP	East Point	131
(Gardner)	Intelligence	HS	G4-CP	East Point	131
	Orders	TS	P14 & Guns	Fort Ruckman	130
	Observer	HS	P14 & OP's	Fort Ruckman	130
	Reader	HS	FSB	Fort Ruckman	130
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	Fort Ruckman	130

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of
FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation of Installation :	Purpose of Telephone :	Type of Phone :	Termination of Each Circuit of Installation :	Place :	Loc.: Check No.: Column
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FORT RUCKMAN, LOCATION NO. 130 (cont'd)

Site 2A

FSB (Gardner)	Orders	TS	BC14	Fort Ruckman	130
	BD 74	TS	FSB	Fort Ruckman	130
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	Fort Ruckman	130
P14 (Gardner)	Orders	HS	BC14	Fort Ruckman	130
	Intelligence	HS	BC14 & OP's	Fort Ruckman	130
	Range Off.	TS	BC14	Fort Ruckman	130
	Radio	HS	FSB	Fort Ruckman	130
	Armsetters	2HS	FSB	Fort Ruckman	130
	Spotting	2HS	FSB	Fort Ruckman	130
	Range	HS	Guns 1 & 2	Fort Ruckman	130
	Azimuth	HS	Guns 1 & 2	Fort Ruckman	130
	Checkback	2TS	Guns 1 & 2	Fort Ruckman	130
	Ammunition	TS	Btry. magaz.	Fort Ruckman	130
	Swbd. Opr.	HS	BD 95 (P14)	Fort Ruckman	130
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	Fort Ruckman	130
Battery #14 (Gardner)	Orders	2HSO	BC14	Fort Ruckman	130
	Range	2HSO	P14	Fort Ruckman	130
	Azimuth	2HSO	P14	Fort Ruckman	130
	Checkback	2TSO	P14	Fort Ruckman	130
	TI	-	FSB	Fort Ruckman	130
Magazine	Orders	TS	P14	Fort Ruckman	130

Site 2B

SL 23F	Ord. & Int.	HS	G7-CP	East Point	131
	Post	Wall	PSB #3	East Point	131

Site 2C

AA Btry. #14	Intelligence	HS	AACP	Fort Banks	128
	Orders	HS	AACP	Fort Banks	128

Site 3A

Magazine	Post	Wall	PSB #3	East Point	131
4th Platoon (AASL)	Orders	HS	AACP	Fort Banks	128
	Intelligence	HS	AACP	Fort Banks	128
4-.50cal(AA)	Ord. & Int.	HS	AACP	Fort Banks	128
	Ord. & Int.	HS	AACP	Fort Banks	128

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : Purpose : Type:	Termination of Each Circuit :	: Loc. : Check
of : of : of :	: of : of :	: No. : Column
Installation : Telephone : Phone:	Installation : Place :	: No. : Column

EAST POINT, LOCATION NO. 131

Site 1A

G ₃ -CP	Orders	TS	C ₃ -CP	Fort Ruckman	130
	Intelligence	HS	C ₃ -CP	Fort Ruckman	130
	Orders	HS	BC15	East Point	131
	Intelligence	HS	BC15	East Point	131
	Orders	HS	BC16	East Point	131
	Intelligence	HS	BC16	East Point	131
	Observer	HS	G ₃ -OP	East Point	131
	Orders	HS	SL 23,24,27 (FSB)	East Point	131
	Radio	TS	FSB	East Point	131
	Post	Wall	FSB #3	East Point	131
	TI	-	FSB	East Point	131
	G ₃ -OP	Observer	HS	G ₃ -CP	East Point
Reader		HS	G ₃ -CP	East Point	131
B ₁₂ ⁵ ₁₂ (Const.#105)	Observer	HS	P12	Fort Dawes	127
	Reader	HS	P12	Fort Dawes	127
	Spotter	HS	P12	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
B ₁₅ ³ ₁₅ (Const.#206)	Observer	HS	P15	East Point	131
	Reader	HS	P15	East Point	131
	Spotter	HS	P15	East Point	131
	TI	-	FSB	East Point	131
AAIS-OP12	Observer	EEG	AAOP	Fort Banks	128

Site 2A

BC15 (Const.#206)	Orders	TS	G ₃ -CP	East Point	131
	Intelligence	HS	G ₃ -CP	East Point	131
	Orders	TS	P15 & Guns	East Point	131
	Observers	HS	P15 & OP's	East Point	131
	Reader	HS	FSB	East Point	131
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	East Point	131
B ₁₄ ³ ₁₄ (Gardner)	Observer	HS	P14	Fort Ruckman	130
	Reader	HS	P14	Fort Ruckman	130
	Spotter	HS	P14	Fort Ruckman	130
	TI	-	FSB	Fort Ruckman	130
B ₁₆ ⁴ ₁₆ (Const.#104)	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
	Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation :	Purpose :	Type :	Termination of Each Circuit :	Loc. :	Check
of :	of :	of :	:	No. :	Column
Installation :	Telephone :	Phone :	Installation :	Place :	No. :

EAST POINT, LOCATION NO. 131 (cont'd)

Site 3A

P15 (Const.#206)	Orders	HS	BC15	East Point	131
	Intelligence	HS	BC15 & OP's	East Point	131
	Range Off.	TS	BC15	East Point	131
	Radio	TS	FSB	East Point	131
	Armsetters	2HS	FSB	East Point	131
	Spotting	2HS	FSB	East Point	131
	Range	HS	Guns 1 & 2	East Point	131
	Azimuth	HS	Guns 1 & 2	East Point	131
	Swbd. Opr.	HS	BD 95 (P15)	East Point	131
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	East Point	131
Battery #15 (Const.#206)	Orders	2HSO	BC15	East Point	131
	Range	2HSO	P15	East Point	131
	Azimuth	2HSO	P15	East Point	131
	RF	2TSO	FSB	East Point	131
	TI	-	FSB	East Point	131
PSB & FSB (Const.#104 and #206)	Orders	TS	BC15 & 16	East Point	131
	BD 74	TS	FSB	East Point	131
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	East Point	131
P16 (Const.#104)	Orders	HS	BC16	East Point	131
	Intelligence	HS	BC16 & OP's	East Point	131
	Range Off.	TS	BC16	East Point	131
	Radio	TS	FSB	East Point	131
	Armsetters	2HS	FSB	East Point	131
	Spotting	2HS	FSB	East Point	131
	Range	HS	Guns 1 & 2	East Point	131
	Azimuth	HS	Guns 1 & 2	East Point	131
	Checkback	TS	Guns 1 & 2	East Point	131
	Ammunition	TS	Btry. magaz.	East Point	131
	Swbd. Opr.	HS	BD 95 (P16)	East Point	131
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	East Point	131
	Battery #16 (Const.#104)	Orders	2HSO	BC16	East Point
Range		2HSO	P16	East Point	131
Azimuth		2HSO	P16	East Point	131
Checkback		2TSO	P16	East Point	131
TI		-	FSB	East Point	131
Magazine (Const.#104)	Ammunition	HS	P16	East Point	131

Site 4A

G4-CP	Orders	TS	C7-CP	East Point	131
	Intelligence	HS	C7-CP	East Point	131
	Orders	HS	BC16	East Point	131

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : of : Installation :	Purpose : of : Telephone :	Type : of : Phone :	Termination of Each Circuit : : : Installation :	Place : : : No. :	Check : : : Column :
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EAST POINT, LOCATION NO. 131 (cont'd)

Site 4A (cont'd)

G4-CP (cont'd)	Intelligence	HS	BC16	East Point	131
	Orders	HS	BC12	Fort Dawes	127
	Intelligence	HS	BC12	Fort Dawes	127
	Orders	HS	BC14	Fort Ruckman	130
	Intelligence	HS	BC14	Fort Ruckman	130
	Observer	HS	G4-OP	East Point	131
	Orders	HS	SL 29, 31, 33 (FSB)	East Point	131
	Radio	TS	FSB	East Point	131
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	East Point	131
G4-OP	Observer	HS	G4-CP	East Point	131
	Reader	HS	G4-CP	East Point	131
	TI	-	FSB	East Point	131
B ⁵ ₁₁ S ⁵ ₁₁ (Const.#206)	Observer	HS	P11	Outer Brewster	126
	Reader	HS	P11	Outer Brewster	126
	Spotter	HS	P11	Outer Brewster	126
	TI	-	FSB	Outer Brewster	126
B ⁵ ₅ S ⁵ ₅ (Long)	Observer	HS	P5	Fort Duvall	118
	Reader	HS	P5	Fort Duvall	118
	Spotter	HS	P5	Fort Duvall	118
	TI	-	FSB	Fort Revere	119

Site 5A

BC16 (Const.#104)	Orders	TS	G4-CP	East Point	131
	Intelligence	HS	G4-CP	East Point	131
	Orders	TS	P16 & Guns	East Point	131
	Observer	HS	P16 & OP's	East Point	131
	Reader	HS	FSB	East Point	131
	Post	Wall	PSB #3	East Point	131
	TI	-	FSB	East Point	131
B ⁴ ₁₃ S ⁴ ₁₃ (Const.#207)	Observer	HS	P13	Fort Dawes	127
	Reader	HS	P13	Fort Dawes	127
	Spotter	HS	P13	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
SL 24P	Ord. & Int.	HS	G3-CP	East Point	131
SL 25P	Ord. & Int.	HS	G3-CP	Fort Ruckman	130
4-.50cal(AA)	Ord. & Int.	HS	AACP	Fort Banks	128
4-.37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation :	Purpose :	Type :	Termination of Each Circuit :	Loc. :	Check
of :	of :	of :	of :	Place :	No. :
Installation :	Telephone :	Phone :	Installation :	Place :	Column

MARBLEHEAD NECK, LOCATION NO. 132

Site 1A

B ⁵ ₁₆ S ⁵ ₁₆ (Const.#104)	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
	Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131
B ⁴ ₁₅ S ⁴ ₁₅ (Const.#206)	Observer	HS	P15	East Point	131
	Reader	HS	P15	East Point	131
	Spotter	HS	P15	East Point	131
	TI	-	FSB	East Point	131
	Post	Wall	PSB #3	East Point	131
B ⁶ ₁₁ S ⁶ ₁₁ (Const.#209)	Observer	HS	P11	Outer Brewster	126
	Reader	HS	P11	Outer Brewster	126
	Spotter	HS	P11	Outer Brewster	126
	TI	-	FSB	Outer Brewster	126

Site 2A

B ⁴ ₁₄ S ⁴ ₁₄ (Gardner)	Observer	HS	P14	Fort Ruckman	130
	Reader	HS	P14	Fort Ruckman	130
	Spotter	HS	P14	Fort Ruckman	130
	TI	-	FSB	Fort Ruckman	130
B ⁶ ₅ S ⁶ ₅ (Long)	Observer	HS	P5	Fort Duvall	118
	Reader	HS	P5	Fort Duvall	118
	Spotter	HS	P5	Fort Duvall	118
	TI	-	FSB	Fort Revere	119
AAIS OP13	Observer	HS	AACP	Fort Banks	128

Site 3A

C ² ₃ -OP	Observer	HS	C3-CP	Fort Ruckman	130
	Reader	HS	C3-CP	Fort Ruckman	130
	Post	Wall	PSB #3	East Point	131
B ⁶ ₁₂ S ⁶ ₁₂ (Const.#105)	Observer	HS	P12	Fort Dawes	127
	Reader	HS	P12	Fort Dawes	127
	Spotter	HS	P12	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
B ⁵ ₁₃ S ⁵ ₁₃ (Const.#207)	Observer	HS	P13	Fort Dawes	127
	Reader	HS	P13	Fort Dawes	127
	Spotter	HS	P13	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
SL 26P	Ord. & Int.	HS	C3-CP	Fort Ruckman	130
4-.50cal(AA)	Ord. & Int.	HS	AACP	Fort Banks	128
2-.37mm (AA)	Ord. & Int.	HS	AACP	Fort Banks	128

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : Purpose : Type: Termination of Each Circuit :	of : of : of : :	: Loc. : Check
Installation : Telephone : Phone: Installation : Place : No. : Column		

MARBLEHEAD LIGHT, LOCATION NO. 133

SL 27P	Ord. & Int.	HS	G3-CP	East Point	130
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GALES POINT, LOCATION NO. 133A

Site 1A

B ⁵ ₁₅ S ⁵ ₁₅	Observer	HS	P15	East Point	131
	Reader	HS	P15	East Point	131
(Const.#206)	Spotter	HS	P15	East Point	131
	TI	-	FSB	East Point	131

B ⁷ ₁₂ S ⁷ ₁₂	Observer	HS	P12	Fort Dawes	127
	Reader	HS	P12	Fort Dawes	127
(Const.#105)	Spotter	HS	P12	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127

B ⁶ ₁₆ S ⁶ ₁₆	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
(Const.#104)	Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131

AAIS OP14	Observer	EES	AACP	Fort Banks	128
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SL 28P	Ord. & Int.	HS	G3-CP	Fort Ruckman	130
SL 29P	Ord. & Int.	HS	G4-CP	East Point	131

COOLIDGE POINT, LOCATION NO. 134

Site 1A

B ⁵ ₁₄ S ⁵ ₁₄	Observer	HS	P14	Fort Ruckman	130
	Reader	HS	P14	Fort Ruckman	130
(Gardner)	Spotter	HS	P14	Fort Ruckman	130
	TI	-	FSB	Fort Ruckman	130

B ⁷ ₅ S ⁷ ₅	Observer	HS	P5	Fort Duvall	118
	Reader	HS	P5	Fort Duvall	118
(Long)	Spotter	HS	P5	Fort Duvall	118
	TI	-	FSB	Fort Revere	119

AAIS OP15	Observer	EES	AACP	Fort Banks	128
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SL 30P	Ord. & Int.	HS	G3-CP	Fort Ruckman	130
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EASTERN POINT, LOCATION NO. 134A

Site 1A

B ⁸ ₁₂ S ⁸ ₁₂	Observer	HS	P12	Fort Dawes	127
	Reader	HS	P12	Fort Dawes	127
(Const.#105)	Spotter	HS	P12	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
	Post	Wall	PSB #3	East Point	131

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation : of : Installation :	Purpose : of : Telephone :	Type : of : Phone :	Termination of Each Circuit : : : Installation :	Place : : : :	: Loc. : : : : No. :	: Check : : : Column
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EASTERN POINT, LOCATION NO. 134A (cont'd)

Site 1A (cont'd)

B ⁷ ₁₆ S ⁷ ₁₆	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
(Const.#104)	Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131
AAIS OP16	Observer	EE8	AACP	Fort Banks	128
SL 31P	Ord. & Int.	HS	G4-CP	East Point	131

EMERSON POINT, LOCATION NO. 135

Site 1A

C ³ ₃ -OP	Observer	HS	C3-CP	Fort Ruckman	130
	Reader	HS	C3-CP	Fort Ruckman	130
	Post	Wall	PSB #3	East Point	131
B ⁸ ₁₆ S ⁸ ₁₆	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
(Const.#104)	Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131
B ⁹ ₁₂ S ⁹ ₁₂	Observer	HS	P12	Fort Dawes	127
	Reader	HS	P12	Fort Dawes	127
(Const.#105)	Spotter	HS	P12	Fort Dawes	127
	TI	-	FSB	Fort Dawes	127
AAIS OP17	Observer	EE8	AACP	Fort Banks	128
SL 32P	Ord. & Int.	HS	C3-CP	Fort Ruckman	130

HALIBUT POINT, LOCATION NO. 136

Site 1A

C ⁴ ₃ -OP	Observer	HS	C3-CP	Fort Ruckman	130
	Reader	HS	C3-CP	Fort Ruckman	130
	Post	Wall	PSB #3	East Point	131
B ⁹ ₁₆ S ⁹ ₁₆	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
(Const.#104)	Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131
AAIS OP18	Observer	EE8	AACP	Fort Banks	128
SL 33P	Ord. & Int.	HS	G4-CP	East Point	131
SL 34P	Ord. & Int.	HS	C3-CP	Fort Ruckman	130

S E C R E T

S E C R E T

Form #40. Annex B.

H. D. of Boston

Basic Information for Construction of

FIRE CONTROL AND COMMUNICATIONS DIAGRAMS

Designation	Purpose	Type	Termination of Each Circuit	
of	of	of		: Loc. : Check
Installation	Telephone	Phone	Installation	Place : No. : Column

CASTLE HILL, LOCATION NO. 137

Site 1A

10 10					
B ₁₆ S ₁₆	Observer	HS	P16	East Point	131
	Reader	HS	P16	East Point	131
(Const. #104)	Spotter	HS	P16	East Point	131
	TI	-	FSB	East Point	131
	Post	Wall	PSB #3	East Point	131

S E C R E T

ANNEX C

SEACOAST SEARCHLIGHTS

HARBOR DEFENSES OF BOSTON

REFERENCE TO EXHIBITS - ANNEX - "C"

EXHIBIT

CONTENTS

- | | |
|-----|--|
| 1-C | List of Seacoast Searchlights (HD) (Pending completion of Modernization Program) (Form #21) |
| 2-C | List of Seacoast Searchlights (HD). (After completion of Modernization Program). (Form #22) with map showing locations and limits of illumination. |
| 3-C | Shelter for Searchlights upon completion of the Modernization Program. (Form #23) |
| 4-C | Cost Estimate and priority guide for Searchlights.
(Form #24 XXXXXX) |

S E C R E T

Form #21. Annex C

H. D. of Boston

LIST OF SEACOAST SEARCHLIGHTS (HD)

(Pending Completion of Modernization Program)

Tac- ical: No.	Light: Type: :	Tactical Location Place	:Exhi- :Loc.:Site: : No.: No.:	Tact.: :bit* : Assign: : ment:	On : hand:	Required
NOTE: No land to be purchased for Portable S. L. positions.						
1	P	Strawberry Point	115	1-C	G-2	0 : 1 Approved
2	P	Strawberry Point	115	1-C	G-2	0 : 1 Approved
3	P	Strawberry Hill	116	1-C	G-2	0 : 1 Approved
4	P	Strawberry Hill	116	1-C	G-2	0 : 1 Approved
5	P	Point Allerton	120	1-C	G-2	0 : 1 Approved
6	F	Fort Revere	119	1-C; 3-C	M-1	1 : 0
7	F	Outer Brewster	126	1-C	G-2	1 : 0
8	F	Outer Brewster	126	1-C	G-2	1 : 0
9	F	Fort Warren	121	1-D; 3-C	M-2	1 : 0
10	F	Fort Standish	123	1-I; 2-C	G-3	1 : 0
11	F	Fort Dawes	127	1-A; 3-C	M-2	1 : 0
12	F	Fort Dawes	127	1-K; 3-C	M-2	1 : 0
13	F	Fort Ruckman	130	1-B; 2-C	G-3	1 : 0
14	P	East Point	131	2-C	G-3	0 : 1 Approved
15	P	East Point	131	2-C	G-3	0 : 1 Approved
16	P	Marblehead Neck	132	2-C	G-3	0 : 1 Approved
17	P	Marblehead Neck	132	2-C	G-3	0 : 1 Approved
18	P	Reserve			Re-serve	0 : 1 Approved
*Exhibit.- Refer to Annexes to Harbor Defense Project, H. D. of Boston,						
Ref. #11 (CCA-AM-B).						

S E C R E T

Exhibit 1-C, Page 1 of 1 Page

S E C R E T

Form #22. Annex C

H. D. of Boston

LIST OF SEACOAST SEARCHLIGHTS (HD)

(After Completion of Modernization Program)

Tact. No.	Light Type	Tactical Location Place	Loc. No.	Site No.	Exhibit bit	Tact. Assign-ment	On Hand	Requir-ed
1	P	Manomet Point	110		1-I-1	G ₁	1	0
2	P	Manomet Point	110		1-I-1	G ₁	1	0
3	P	Gurnet Point	111		1-I-2	G ₁	1	0
4	P	Gurnet Point	111		1-I-2	G ₁	1	0
5	P	Brant Rock	112		1-I-3	G ₁	1	0
6	P	Brant Rock	112		1-I-3	G ₁	1	0
7	P	Fourth Cliff	114		1-I-5	G ₁	1	0
8	P	Fourth Cliff	114		1-I-5	G ₂	1	0
9	P	Strawberry Point	115		1-I-6	G ₁	1	0
10	P	Strawberry Point	115		1-I-6	G ₂	1	0
11	P	Strawberry Hill	116		1-I-7	G ₁	0	1
12	P	Strawberry Hill	116		1-I-7	G ₂	0	1
13	P	Point Allerton	120		1-I-11	G ₁	0	1
14	F	Fort Revere	119	10	1-I-10	MG ₁	1	0
15	F	Fort Andrews	117	1F	1-I-8	G ₂	1	0
16	P	Outer Brewster	126		1-I-15	G ₁	0	1
17	P	Outer Brewster	126		1-I-15	G ₂	0	1
18	F	Fort Warren	121	1F	1-I-12	M ₁	1	0
19	F	Fort Strong	122	1G	1-I-13	G ₂	1	0
20	F	Fort Standish	123	1I	1-I-14	G ₂	1	0
21	F	Fort Dawes	127	1A	1-I-16	M ₂	1	0
22	F	Fort Dawes	127	1K	1-I-16	MG ₂	1	0
23	F	Fort Ruckman	130	2B	1-I-19	G ₃	1	0
24	P	East Point	131		1-I-20	G ₃	0	1
25	P	East Point	131		1-I-20	G ₃	0	1
26	P	Marblehead Neck	132		1-I-21	G ₃	0	1
27	P	Marblehead Light	133			G ₃	0	1
28	P	Gales Point	133A		1-I-22	G ₃	0	1

S E C R E T

Exhibit 2C, Page 1 of 3 Pages

S E C R E T

Form #22. Annex C

H. D. of Boston

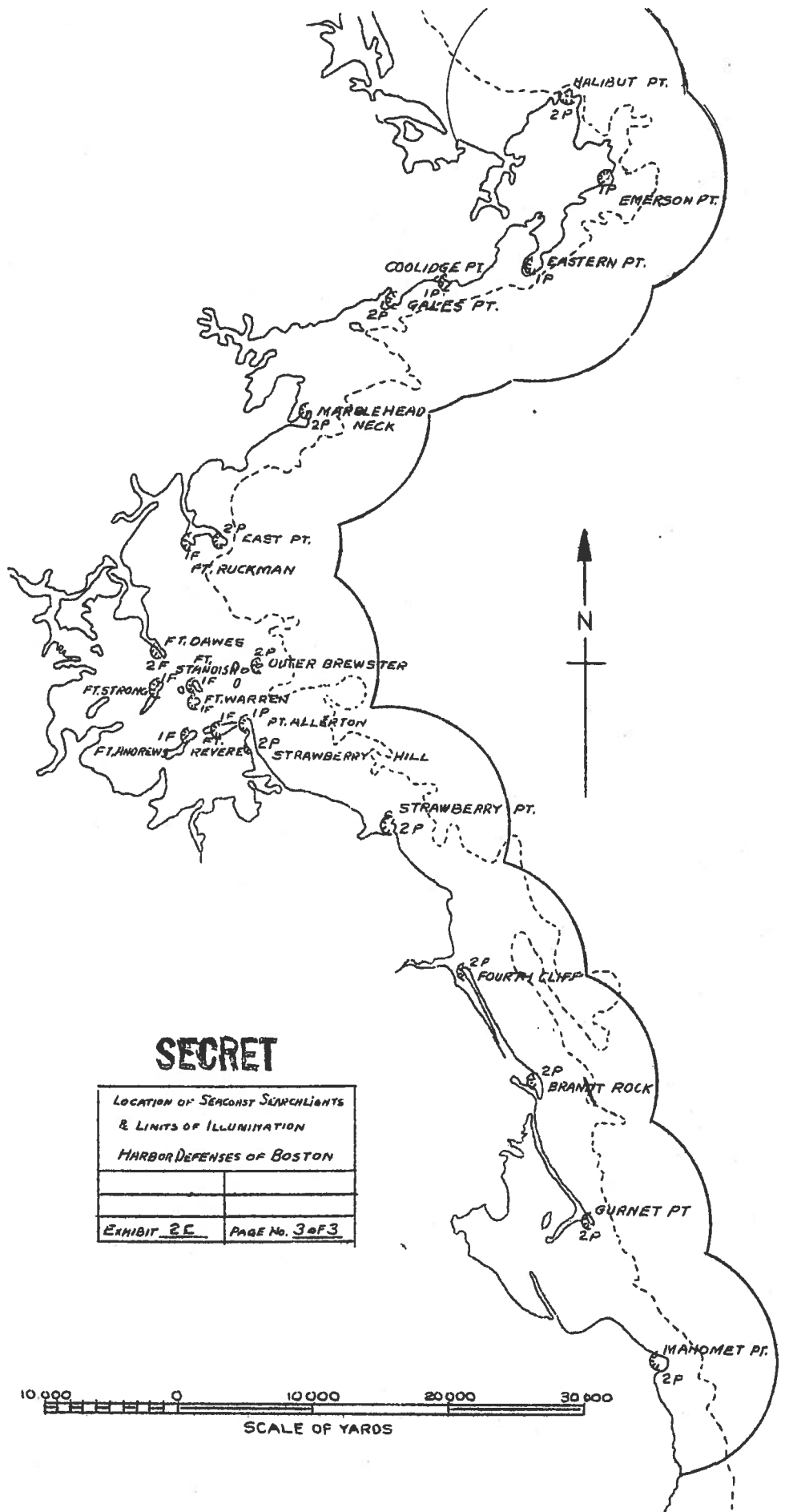
LIST OF SEACOAST SEARCHLIGHTS (HD)

(After Completion of Modernization Program)

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S E C R E T

Exhibit 2-C, Page 2 of 3 Pages



SECRET

LOCATION OF SEARCHLIGHTS & LIMITS OF ILLUMINATION HARBOR DEFENSES OF BOSTON	
EXHIBIT 2E	PAGE No. 3 of 3

Form #23. Annex C

SHELTER FOR SEARCHLIGHTS

[illegible]

Exhibit 3-C, Page 1 of 1 Page

S E C R E T

Form 24. Annex G.

H. D. of Boston

Cost Estimate and Priority Guide
for
SEARCHLIGHTS

Prior- ity No.	Item No.	Location No. & Des- cription of Project	Exhi- bit	Cost Itemized	Cost of Land	Total Cost
<u>Location No. 110 (Manomet Point)</u>						
1		S/L No. 1- (P)	1-I-1	Notes 1 & 2	Note 4	
1		S/L No. 2- (P)	1-I-1	Note 1	Note 4	None
<u>Location No. 111 (Gurnet Point)</u>						
1		S/L No. 3- (P)	1-I-2	Notes 1 & 2	Note 4	
1		S/L No. 4- (P)	1-I-2	Note 1	Note 4	None
<u>Location No. 112 (Brant Rock)</u>						
1		S/L No. 5- (P)	1-I-3	Notes 1 & 2	Note 4	
1		S/L No. 6- (P)	1-I-3	Note 1	Note 4	None
<u>Location No. 114 (Fourth Cliff)</u>						
1		S/L No. 7- (P)	1-I-5	Note 1	Note 4	
1		S/L No. 8- (P)	1-I-5	Note 1	Note 4	None
<u>Location No. 115 (Strawberry Point)</u>						
1		S/L No. 9- (P)	1-I-6	Note 1	Note 4	
1		S/L No. 10- (P)	1-I-6	Note 1	Note 4	None
<u>Location No. 116 (Strawberry Hill)</u>						
1		S/L No. 11- (P)	1-I-7	Note 3	Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station				
				\$21,000		\$21,000
1		S/L No. 12- (P)	1-I-7	Note 3	Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station				
				\$21,000		21,000
<u>Location No. 120 (Point Allerton)</u>						
1		S/L No. 13- (P)	1-I-11	Note 3	Note 4	
		<u>Engineer:</u> 1 Portable S/L W/PH & C. Station				
				\$21,000		21,000
1		<u>Location No. 119 (Fort Revore)</u>				
		S/L No. 14 (F)	1-I-10	Note 1	Mil.Res.	None

S E C R E T

Exhibit 4-C Page 1 of 4 pages.

S E C R E T

Form 24. Annex C

H. D. of Boston

Cost Estimate and Priority Guide
for
SEARCHLIGHTS

Prior-: Item: Location No. & Des-: Exhi: Cost : Cost of: Total	ity No: No. : cription of Project: bit : Itemized: Land : Cost				
1	<u>Location No. 117 (Fort Andrews)</u>				
	S/L No. 15 (F) 1-I-8 Note 1 Mil.Res. None				
	<u>Location No. 126 (Outer Brewster)</u>				
	S/L No. 16- (P) 1-I-15 Note 3 Note 4				
	Engineer: 1 portable S/L W/PH & C. Station \$21,000 \$21,000				
1	S/L No. 17- (P) 1-I-15 Note 3 Note 4				
	Engineer: 1 portable S/L W/PH & C. Station 21,000 21,000				
1	<u>Location No. 121 (Fort Warren)</u>				
	S/L No. 18 (F) 1-I-12 Note 1 Mil.Res. None				
1	<u>Location No. 122 (Fort Strong)</u>				
	S/L No. 19 (F) 1-I-13 Note 1 Mil.Res. None				
1	<u>Location No. 123 (Fort Standish)</u>				
	S/L No. 20 (F) 1-I-14 Note 1 Mil.Res. None				
1	<u>Location No. 127 (Fort Dawes)</u>				
	S/L No. 21 (F) 1-I-16 Note 1 Mil.Res.				
	S/L No. 22 (F) 1-I-16 Note 1 Mil.Res. None				
1	<u>Location No. 130 (Fort Buckman)</u>				
	S/L No. 23 (F) 1-I-19 Note 1 Mil.Res. None				
1	<u>Location No. 131 (East Point, Nahant)</u>				
	S/L No. 24- (P) 1-I-20 Note 3 Note 4				
	Engineer: 1 portable S/L W/PH & C Station 21,000 21,000				
1	S/L No. 25- (P) 1-I-20 Note 3 Note 4				
	Engineer: 1 portable S/L W/PH & C Station 21,000 21,000				

S E C R E T

Exhibit 4-C Page 2 of 4 pages

S E C R E T

Form 24. Annex C

H. D. of Boston

Cost Estimate and Priority Guide
for
SEARCHLIGHTS

Prior- ity No.	Item: No.	Location No. & Des- cription of Project:	Exhi- bit	Cost Itemized:	Cost of Land	Total Cost
2		<u>Location No. 132 (Marblehead Neck)</u>				
		S/L No. 26- (P)	1-I-21	Note 3	Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station		\$21,000		\$21,000
2		<u>Location No. 133 (Marblehead Light)</u>				
		S/L No. 27- (P)		Note 3	Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station		21,000		21,000
2		<u>Location No. 133A (Gales Point)</u>				
		S/L No. 28 - (P)	1-I-22	Note 3	Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station		21,000		21,000
2		<u>Location No. 134 (Coolidge Point)</u>				
		S/L No. 29- (P)	1-I-22	Note 3	Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station		21,000		21,000
2		<u>Location No. 134A (Eastern Point)</u>				
		S/L No. 30- (P)	1-I-23	Notes 2 & 3	Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station		21,000		21,000
3		<u>Location No. 135 (Emerson Point)</u>				
		S/L No. 31- (P)	1-I-24	Notes 2 & 3	Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station		21,000		21,000
3		<u>Location No. 135A (Emerson Point)</u>				
		S/L No. 32- (P)	1-I-25	Notes 2 & 3	Note 4	

S E C R E T

Exhibit 4-C Page 3 of 4 pages

S E C R E T

Form 24. Annex C

H. D. of Boston

Cost Estimate and Priority Guide
for
SEARCHLIGHTS

Prior- ity No.	Item: No.	Location No. & Description of Project	Des- bit	Exhi- bit	Cost Itemized	Cost of Land	Total Cost
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station			\$21,000		\$21,000
3		<u>Location No. 136 (Halibut Point)</u>					
		S/L No. 33- (P)	1-I-26	Note 3		Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station			21,000		21,000
		S/L No. 34- (P)	1-I-26	Note 3		Note 4	
		<u>Engineer:</u> 1 portable S/L W/PH & C. Station			21,000		21,000
							<u>21,000</u>
						Total Engineer	<u>\$336,000</u>

Note 1. Portable S/L (AA Type) with powerplant, control station and shelter complete with Signal Equipment, on hand or approved in Augmented Expenditure Program, HD of Boston, 1941.

Note 2. 35' S/L Tower on hand or approved in Augmented Expenditure Program, HD of Boston, 1941.

Note 3. Signal Equipment on hand or approved in Augmented Expenditure Program, HD of Boston, 1941.

Note 4. No purchase of land for portable searchlight positions is contemplated. Sites to be occupied in an emergency.

Note 5. For general locations and fields of illumination see Exhibit 2-C-3.

S E C R E T

Exhibit 4-C Page 4 of 4 pages.

ANNEX D

UNDERWATER DEFENSE

HARBOR DEFENSES OF BOSTON

EXHIBITS - ANNEX D

EXHIBITS

1-D

2-D

CONTENTS

Underwater Defenses (Form #25)

Cost Estimate and Priority
Guide Underwater Defenses
(Form #26)

S E C R E T

Form 25. Annex D

H. D. of BOSTON

UNDERWATER DEFENSES

The underwater defense project of these Harbor Defenses is prescribed in ANNEXES TO HARBOR DEFENSE PROJECT, H. D. of BOSTON.

The following changes and additions to this project, recommended by the Board, are included and described in the "Cost Estimate and Priority Guide, UNDERWATER DEFENSES", Form #26.

1. The present underwater defense project, approved by the Secretary of War on January 16, 1929, provides for four groups of mines in the southern (Nantasket Roads) entrance to the harbor controlled from Fort Warren, and five (5) groups in northern entrance (the main ship channel), controlled from Fort Strong.
2. Fort Warren mine installations:
 - a. Mine Casemate: The mine casemate is satisfactory; requires bomb-proofing of rear only.
 - b. Mine loading room: The mine loading room is satisfactory.
 - c. Cable tanks: The cable tanks require extensive repair. No. 2 tank is cracked, causing loss of water. The overhead crane in this tank is bent and should be replaced by a heavier crane.
 - d. Mine wharf: The mine wharf has been rehabilitated recently and is satisfactory.
 - e. Magazine for T.N.T. and fuse storage: 32,200 pounds of T.N.T. will be stored at Fort Warren. This explosive should be divided equally between Ordnance Magazine No. 1 and Magazine No. 1, Battery Bartlett. All distances and quantities will then satisfy quantity distance tables as prescribed in TR 1370-A.
 - f. Mine planter: One mine planter is allotted this Harbor Defense. This is believed to be sufficient.
 - g. D. B. boats: The D. B. boat assigned to this mine command is of the old type but is satisfactory.
 - h. Yawl boats: Three M boats are assigned this command. All are satisfactory.
 - i. Land requirements: There are no land requirements.
3. Fort Strong mine installations:
 - a. Mine casemate: The mine casemate is satisfactory; requires bomb-proofing in rear only.
 - b. Mine loading room: The mine loading room is satisfactory.
 - c. Cable tanks: Cable tanks are satisfactory.
 - d. Mine wharf: The mine wharf has recently been rehabilitated and is satisfactory.
 - e. Magazine for T.N.T. and fuse storage: 39,700 pounds of T.N.T. is to be stored at Fort Strong. T.N.T. should be divided equally between No. 2 Magazine, Battery Smythe, and No. 1 Magazine, Battery Ward. All quantities and distances will then comply with the provisions of TR 1370-A.
 - f. Mine planter: One mine planter is assigned this Harbor Defense. This is believed to be sufficient.
 - g. D. B. boats: The D. B. boat assigned to this mine command is of the old wooden class but is satisfactory.
 - h. Yawl boats: Four M boats are assigned this mine command; all are satisfactory.
 - i. Land requirements: There are no land requirements.

S E C R E T

Exhibit 1-D, Page 1 of 1 Page

S E C R E T

Form No. 26, Annex D

H. D. of Boston

Cost Estimate and Priority Guide

UNDERWATER DEFENSES

Pri- ority No. :	Loca- tion No. :	Place and Description of Project	: : : Exhibit: Number :	: : : Cost Itemized :	: : : Total Cost
1	121	<u>FORT WARREN:</u>			
		Self-propelled gasoline driven 5-ton crane with 25' radius for mine dock	1-I-12	<u>Engineer:</u> \$7,500	\$ 7,500
1	121	Gasoline tank, 2000 gallon capacity for mine command	1-I-12	1,000	1,000
1	121	Floodlights for mine dock	1-I-12	500	500
1	121	Repair of Cable Tank No. 2	1-I-12	3,000	3,000
1	121	Replacing of traveling crane in Cable Tank No. 2	1-I-12	1,500	1,500
1	121	Bomb-proofing rear of Mine Casemate	1-I-12	10,000	10,000
1	122	<u>FORT STRONG:</u>			
		Self-propelled gasoline driven 5-ton crane with 25' radius for mine dock	1-I-13	<u>Engineer:</u> 7,500	7,500
1	122	Gasoline tank, 2000 gallon capacity for mine command	1-I-13	1,000	1,000
1	122	Floodlights for mine dock	1-I-13	500	500
1	122	Bomb-proofing rear of Mine Casemate	1-I-13	10,000	10,000
TOTALS				\$42,500	\$42,500

NOTE: * Cost of subaqueous or subterranean communications cables is not included.

S E C R E T

Exhibit 2-D, Page 1 of 1

ANNEX E

ANTIAIRCRAFT ARTILLERY

HARBOR DEFENSES OF BOSTON

EXHIBITS - ANNEX E

EXHIBITS

CONTENTS

1-E	List of 3" Fixed Anti-aircraft Gun Batteries (Form #27)
2-E	Anti-aircraft Searchlights (Form #28 and 28A)
3-E	Anti-aircraft Automatic Weapons (Form #29 and 29A)
4-E	Anti-aircraft Intelligence Service (Form #30)
5-E	Cost estimate and Priority Guide, Anti-aircraft Artillery (Form #31)

S E C R E T

Form #27. Annex E.

H. D. of Boston

LIST OF 3-INCH FIXED ANTI-AIRCRAFT GUN BATTERIES

Btry. No.	: Guns	: Loca- tion	: Site	: Item	: Place and Land	: Ex- hibit	: Type	: Bat. All.	: Place of Am. Storage
1	3	119	1-B		Ft. Revere None	1-I-10	1917 M1-A2	1917	1620 Btry. Pope
2	3	123	1-F		Ft. Standish None	1-I-14	1917 A2 & M1-A2	1917	1620 Btry. Morris
3	3	122	1-C		Ft. Strong None	1-I-13	1917 A2	1917	1620 Btry. Taylor
4	3	130	2-C		Ft. Ruckman* None	1-I-19	1917 A2	1917	1620 Bry. Gardner

*Local Harbor Defense Board has recommended that the AA Battery now located at Fort Heath be moved to Fort Ruckman (Local Harbor Defense Board Proceedings dated June 30, 1941).

S E C R E T

Exhibit 1-E, Page 1 of 1 Page

S E C R E T

Form #28. Annex E

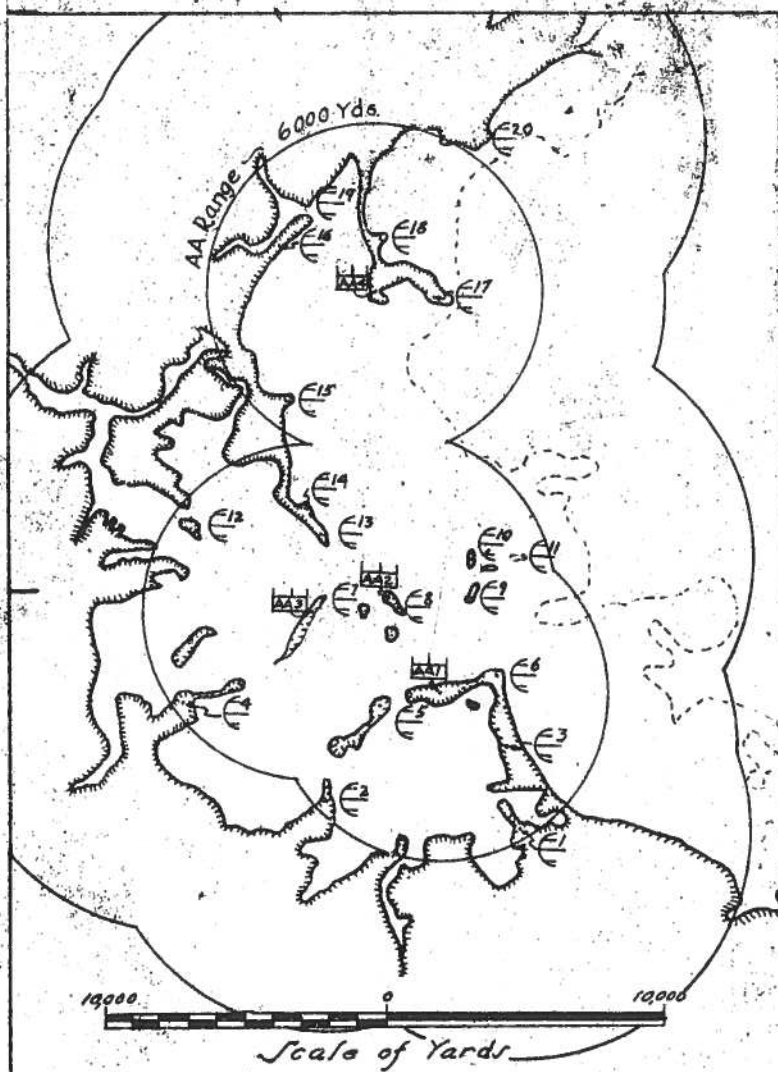
H. D. of BOSTON

ANTI-AIRCRAFT SEARCHLIGHTS

:Loca-: Exhi- :			: No.: No. :			: Is Land		
AA SL:	tion:	bit :	Place	Type :	on :	Re- :	Is Land	
No. :	No. :	No. :			Hand:	quired:	Required?	
:	:	:		:	:	:	:	:
			<u>First Plat. (AA1)</u>					
1		2-E-2	Planters Hill	P	1	0	No	
2	:	2-E-2	Quincy Great Hill	P	1	0	No	
3	116	2-E-2	Strawberry Hill	P	1	0	No	
4		2-E-2	Squantum	P	1	0	No	
5	117	2-E-2	Ft. Andrews	P	1	0	No	
			<u>Second Plat. (AA2)</u>					
6	120	2-E-2	Pt. Allerton	P	1	0	No	
7	122	2-E-2	Ft. Strong	P	1	0	No	
8	123	2-E-2	Ft. Standish	P	1	0	No	
9	124	2-E-2	Great Brewster	P	1	0	No	
10	125	2-E-2	Calf Island	P	1	0	No	
			<u>Third Plat. (AA3)</u>					
11	126	2-E-2	Outer Brewster	P	1	0	No	
12		2-E-2	Castle Island	P	1	0	No	
13	127	2-E-2	Ft. Dawes	P	1	0	No	
14		2-E-2	Winthrop Head	P	1	0	No	
15	129	2-E-2	Ft. Heath	P	1	0	No	
			<u>Fourth Plat. (AA4)</u>					
16		2-E-2	Revere Beach	P	1	0	No	
17	131	2-E-2	Spouting Horn	P	1	0	No	
18		2-E-2	Little Nahant	P	1	0	No	
19		2-E-2	Lynn-Near Gen.	P	1	0	No	
			Edwards Bridge					
20		2-E-2	Phillips Point	P	1	0	No	
:	:	:		:	:	:	:	:
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S E C R E T

Exhibit 2-E, Page 1 of 2 Pages



**ANTIAIRCRAFT GUN
&
SEARCHLIGHT DEFENSE**

HARBOR DEFENSES OF BOSTON

EXHIBIT No 2E

PAGE No. 2 OF 2 PAGES

S E C R E T

Form #29. Annex E.

H. D. of Boston

ANTI-AIRCRAFT AUTOMATIC WEAPONS

The authorized antiaircraft automatic weapon defense is disposed as shown in the following tabulation and the indicated exhibits.

Caliber	No. of Guns	Loc. No.	Place	Exhibit	Battle All. Amm.	Ammunition	
						Place of Storage	On Hand Re-quired
.50"	4	113	Flower Hill	3-E-3	28800	Magazine at 113 (const. 106)	Authorized under table basic allowances
	4	114	Fourth Cliff	"	"	"	
	4	115	Strawberry Point	"	"	"	
	4	120	Pt. Allerton	"	"	Ft. Revere	
	4	119	Ft. Rovere	"	"	"	
	4	117	Ft. Andrews	"	"	Ft. Andrews	
	4	121	Ft. Warren	"	"	Ft. Warren	
	4	125	Calf Island	"	"	"	
	4	126	Outer Brewster	"	"	"	
	4	127	Ft. Dawes	"	"	Ft. Dawes	
	4	123	Ft. Standish	"	"	Ft. Standish	
	4	128	Ft. Banks	"	"	Ft. Banks	
	4	130	Ft. Ruckman	"	"	Ft. Ruckman	
	4	131	East Point	"	"	"	
	4	132	Marblehead Neck	"	"	"	
TOTAL		60	TOTAL		432,000		

S E C R E T

Exhibit 3-E, Page 1 of 3 pages

S E C R E T

Form #29. Annex E.

H. D. of Boston

ANTI-AIRCRAFT AUTOMATIC WEAPONS

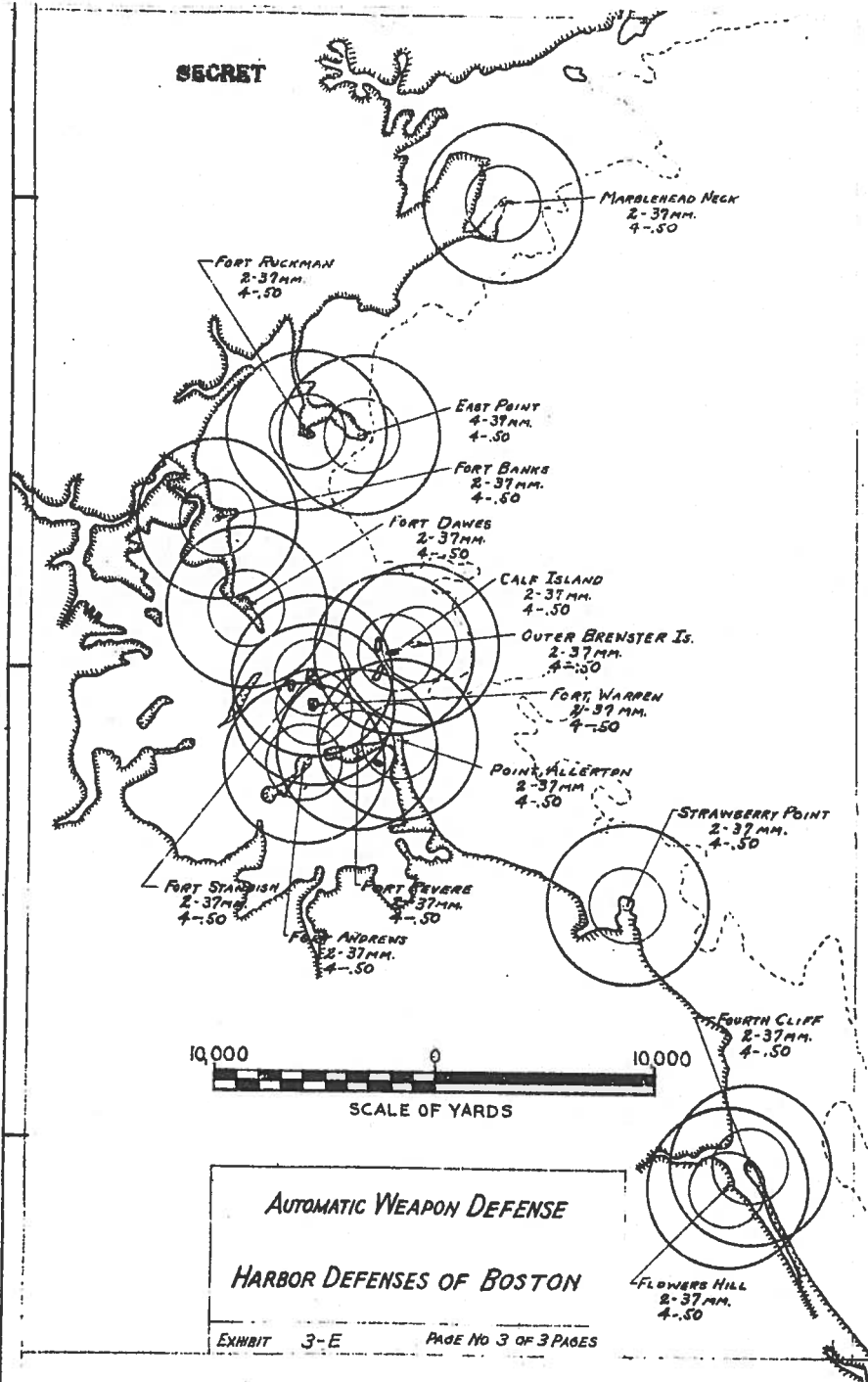
The authorized antiaircraft automatic weapon defense is disposed as shown in the following tabulation and the indicated exhibits.

Cali- ber	No. of Guns	Loc. No.	Place	Exhibit	Battle All. Amm.	Ammunition		
						Place of Storage	On Hand	Re- quired
37 mm	2	113	Flower Hill	3-E-3	7200	Magazine at 113 (const. 106)		Authorized under table of allow- ances
	2	114	Fourth Cliff	"	"	"		"
	2	115	Strawberry Point	"	"	"		"
	2	120	Pt. Aller- ton	"	"	Fort Revere		"
	2	119	Ft. Revere	"	"	"		"
	2	117	Ft. Andrews	"	"	Fort Andrews		"
	2	121	Ft. Warren	"	"	Fort Warren		"
	2	125	Calf Island	"	"	"		"
	2	126	Outer Brew- ster	"	"	"		"
	2	127	Ft. Dawes	"	"	Fort Dawes		"
	2	123	Ft. Stan- dish	"	"	Fort Standish		"
	2	128	Ft. Banks	"	"	Fort Banks		"
	2	130	Ft. Ruckman	"	"	Fort Ruckman		"
	4	131	East Point	"	14400	"		"
	2	132	Marblehead Neck	"	7200	"		"
TOTAL	32				TOTAL 115,200			

S E C R E T

Exhibit 3-E, Page 2 of 3 pages

SECRET

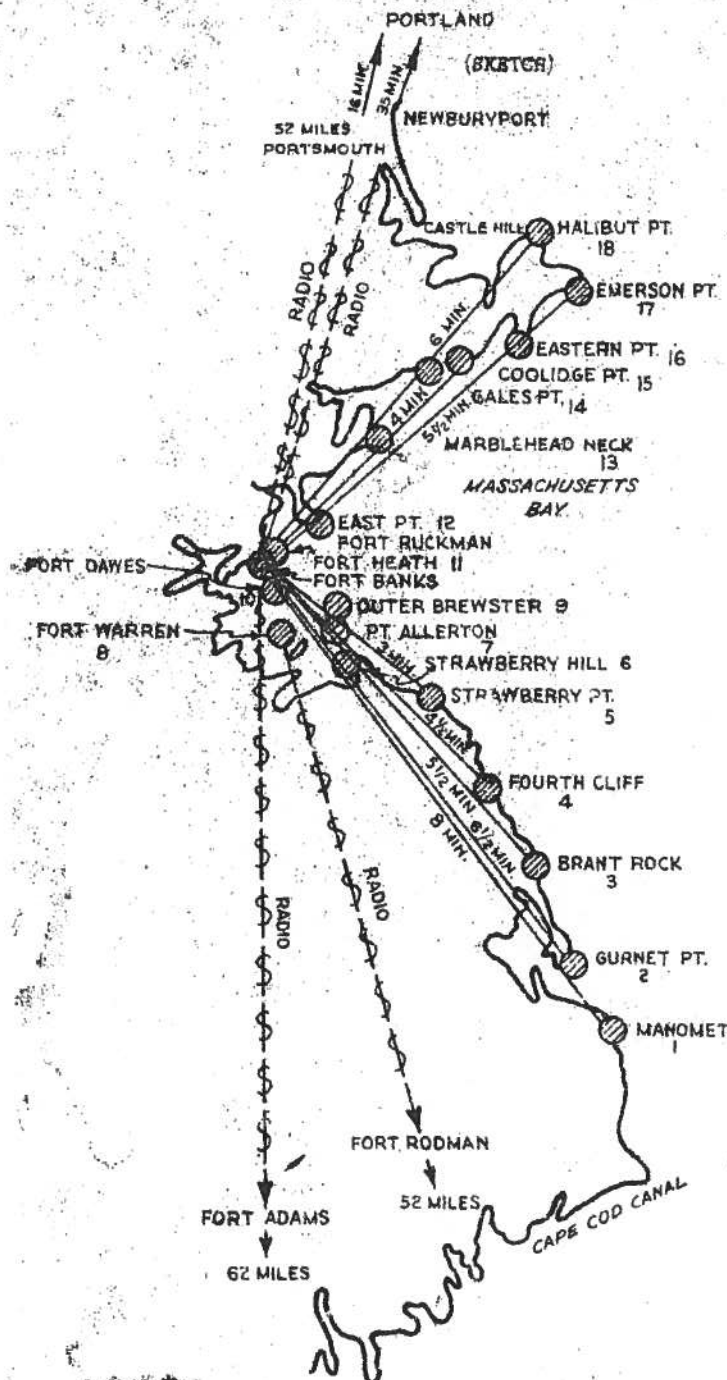


SECRET

Form #30 Annex E

H. D. of Boston

ANTIAIRCRAFT INTELLIGENCE SERVICE *



H. D. OF BOSTON

0 5 10 15 20
SCALE OF MILES — 1" = 10 MILES

Time computed on speed of 300 M.P.H.

AA-Intell. C.P. at Fort Banks.

NOTE *

See notes on final pages of AUGMENTED EXPENDITURE PROGRAM — SEA-COAST 1941, and letter AG 660.2 AA (10/23/40) M-OCOA, NOV. 1, 1940. "Revision of Antiaircraft Annex, Harbor Defense Projects"

SECRET

Exhibit 4E Page 1 of 1 Page

S E C R E T

Form #31. Annex E

H. D. of Boston

Cost Estimate and Priority Guide

ANTI-AIRCRAFT ARTILLERY

Location No. 130 Site No. 1-B Place Fort Ruckman

Pri- ority	Item No.	Description of Project	Exhi- bit	Cost Estimated	Total Cost*
1		Install data system of AA #4 (Fort Ruckman) Constr. Gun Blocks and Generator Shed	1-1-19	<u>Engineer:</u> Material \$2100. Labor 2100. Contingency <u>800.</u>	\$5000.
		Remarks: \$700. included in FY 1942 Expenditure Program. All Signal Corps equipment on hand.			

NOTE: *Cost of subaqueous or subterranean communications cables not included.

S E C R E T

Exhibit 5E, Page 1 of 1 Page

ANNEX F

SUPPORTING AIRCRAFT

HARBOR DEFENSES OF BOSTON

EXHIBITS - ANNEX F

EXHIBITS

1-F

CONTENTS

Supporting Aircraft

S E C R E T

ANNEX F

H. D. of BOSTON

SUPPORTING AIRCRAFT

1. Mission: To furnish aerial observation and surveillance for the gun defenses of this harbor defense.
2. Equipment required: Each subsector will require two flights of observation airplanes (three operating airplanes each) for surveillance purposes. Surveillance missions will be scheduled by the subsector.
3. For aerial observation for the gun defenses of this harbor defense two operating planes are required.
4. Missions will be performed by daylight and darkness, over land and water.
5. All planes will be equipped with two-way radio.
6. Landing fields:
 - A. The base landing field will be that designated by the Air Corps.
 - B. Landing fields will be selected by the Air Corps from those available at the time.
7. Communications:
 - A. Telephone: By leased commercial circuit to subsector and harbor defense.
 - B. Radio:
 - (1.) Airplane to ground, two-way radio.
 - (2.) Operating base to subsector.
 - (3.) Landing field to Harbor Defense Command Station.

S E C R E T

Exhibit 1-F, Page 1 of 1 Page

ANNEX G

GAS DEFENSE

S E C R E T

HARBOR DEFENSES OF BOSTON

EXHIBITS & ANNEX G

EXHIBITS

CONTENTS

1-G

Cost Estimate and Priority Guide Gas Defense (Form #32)

S E C R E T

S E C R E T

Form #32. Annex G

H. D. of Boston

Cost Estimate and Priority Guide

GAS DEFENSE

Pri-	Item:	Loc.:	Site:	:	:	:
ority:	No.:	No.:	No.:	Place and Element	Cost	Total
:	:	:	:	to be Protected	Itemized *	Cost

Flower Hill

3	113	1-A	<u>Constr. #106 Plot Rm - Radio Rm & FCSB</u>			
			2 Collective Protectors	\$1600		
			8 Reserve Canisters	<u>2160</u>		\$3760 (CWS)

Engineer Installation

			Material	200		
			Labor	200		
			Contingency	<u>80</u>		480 (Eng)

3	113	1-A	<u>Constr. #106 Latrine & Rest Room</u>			
			2 Collective Protectors	1600		
			8 Reserve Canisters	<u>2160</u>		3760 (CWS)

Engineer Installation

			Material	200		
			Labor	200		
			Contingency	<u>80</u>		480 (Eng)

Fourth Cliff

2	114	1-C	<u>Constr. #208 - Plotting Room</u>			
			1 Collective Protector	800		
			4 Reserve Canisters	<u>1080</u>		1880 (CWS)

Engineer Installation

			Material	100		
			Labor	100		
			Contingency	<u>40</u>		240 (Eng)

2	114	1-C	<u>Constr. #208 - Latrine</u>			
			1 Collective Protector	800		
			4 Reserve Canisters	<u>1080</u>		1880 (CWS)

Engineer Installation

			Material	100		
			Labor	100		
			Contingency	<u>40</u>		240 (Eng)

Fort Andrews

1	117	1-G	<u>Battery McCook - Plotting Rm</u>			
			1 Collective Protector	800		
			4 Reserve Canisters	<u>1080</u>		1880 (CWS)

NOTE * Cost itemized by branch as "C.W.S.", "Engineer", "Quartermaster".
Collective protector units, spare cannisters, miscellaneous materials and labor included.

S E C R E T

Exhibit 1-G, Page 1 of 8 Pages

S E C R E T

Form #32. Annex G

H. D. of Boston

Cost Estimate and Priority Guide

GAS DEFENSE

Pri- ority:	Item: No.:	Loc.: No.:	Site: No.:	Place and Element to be Protected	Cost Itemized *	Total Cost
<u>Fort Andrews (Cont'd)</u>						
<u>Engineer Installation</u>						
				Material	\$ 500	
				Labor	1000	
				Contingency	<u>300</u>	\$1800 (Eng)
<u>Fort Duvall</u>						
1	118	1-A		Battery #5 (long) - Plotting Rm.		
				2 Collective Protectors	1600	
				8 Reserve Canisters	<u>2160</u>	3760 (CWS)
<u>Engineer Installation</u>						
				Material	1000	
				Labor	2000	
				Contingency	<u>600</u>	3600 (Eng)
<u>Fort Duvall</u>						
1	118	1-A		Battery #5 (Long) - Latrine & Rest Room		
				2 Collective Protectors	1600	
				8 Reserve Canisters	<u>2160</u>	3760 (CWS)
<u>Engineer Installation</u>						
				Material	1000	
				Labor	2000	
				Contingency	<u>600</u>	3600 (Eng)
<u>Fort Revere</u>						
1	119	1-E		Fire Control Switchboard		
				1 Collective Protector	800	
				4 Reserve Canisters	<u>1080</u>	1880 (CWS)
<u>Engineer Installation</u>						
				Material	500	
				Labor	1000	
				Contingency	<u>300</u>	1800 (Eng)
<u>Point Allerton</u>						
1	120	2-A		C1 - CP		
				1 Collective Protector	800	
				4 Reserve Canisters	<u>1080</u>	1880 (CWS)

NOTE * Cost itemized by branch as "C.W.S.", "Engineer", "Quartermaster".
Collective protector units, spare cannisters, miscellaneous materials and labor included.

S E C R E T

Exhibit 1-G, Page 2 of 8 Pages

S E C R E T

Form # 32. Annex G

H. D. of Boston

Cost Estimate and Priority Guide

GAS DEFENSE

Pri-	Item:	Loc.:	Site:				
ority:	No.:	No.:	No.:	Place and Element	Cost	Total	
:	:	:	:	to be Protected	Itemized *	Cost	
<u>Point Allerton (Cont'd)</u>							
<u>Engineer Installation</u>							
				Material	\$ 500		
				Labor 8	1000		
				Contingency	<u>300</u>	\$1800 (Eng)	
<u>Fort Warren</u>							
1	121	1-C	<u>1st Mine Command Casemate</u>				
				1 Collective Protector	800		
				4 Reserve Canisters	<u>1080</u>	1880 (CWS)	
<u>Engineer Installation</u>							
				Material	500		
				Labor	1000		
				Contingency	<u>300</u>	1800 (Eng)	
<u>Fort Warren</u>							
1	121	1-D	<u>Seaward Defense Command & C2-CP</u>				
				1 Collective Protector	800		
				4 Reserve Canisters	<u>1080</u>	1880 (CWS)	
<u>Engineer Installation</u>							
				Material	500		
				Labor	1000		
				Contingency	<u>300</u>	1800 (Eng)	
<u>Fort Warren</u>							
1	121	1-E	<u>1st Mine Command Plotting Rm.</u>				
				1 Collective Protector	800		
				4 Reserve Canisters	<u>1080</u>	1880 (CWS)	
<u>Engineer Installation</u>							
				Material	500		
				Labor	1000		
				Contingency	<u>300</u>	1800 (Eng)	
<u>Fort Warren</u>							
1	121	1-G	<u>Fire Control Switchboard</u>				
				1 Collective Protector	800		
				4 Reserve Canisters	<u>1080</u>	1880 (CWS)	

NOTE * Cost itemized by branch as "C.W.S.", "Engineer", "Quartermaster".
Collective protector units, spare cannisters, miscellaneous materials and labor included.

S E C R E T

Exhibit 1-G, Page 3 of 8 Pages

S E C R E T

Form #32. Annex G

H. D. of Boston

Cost Estimate and Priority Guide

GAS DEFENSE

Pri-	Item:	Loc.:	Site:				
ority:	No. :	No. :	No. :	Place and Element	Cost	Total	
:	:	:	:	to be Protected	Itemized *	Cost	
Fort Warron (Cont'd)							
<u>Engineer Installation</u>							
				Material	\$ 500		
				Labor	1000		
				Contingency	<u>300</u>	\$1800 (Eng)	
<u>Fort Strong</u>							
1	122	1-E		<u>2nd Mine Command Casemate</u>			
				1 Collective Protector	800		
				4 Reserve Canisters	<u>1080</u>	1880 (CWS)	
<u>Engineer Installation</u>							
				Material	500		
				Labor	1000		
				Contingency	<u>300</u>	1800 (Eng)	
<u>Fort Standish:</u>							
1	123	1-G		<u>2nd Mine Command Plotting Rm.</u>			
				1 Collective Protector	800		
				4 Reserve Canisters	<u>1080</u>	1880 (CWS)	
<u>Engineer Installation</u>							
				Material	500		
				Labor	1000		
				Contingency	<u>300</u>	1800 (Eng)	
<u>Fort Standish</u>							
1	123	1-H		<u>Battery Whipple Plotting Rm.</u>			
				1 Collective Protector	800		
				4 Reserve Canisters	<u>1080</u>	1880 (CWS)	
<u>Engineer Installation</u>							
				Material	500		
				Labor	1000		
				Contingency	<u>300</u>	1800 (Eng)	
<u>Outer Brewster</u>							
2	126	1-B		<u>Constr. #209 - Plotting Rm & FCSE</u>			
				2 Collective Protectors	1600		
				8 Reserve Canisters	<u>2160</u>	3760 (CWS)	

NOTE * Cost itemized by branch as "C.W.S.", "Engineer", "Quartermaster".
Collective protector units, spare cannisters, miscellaneous materials and labor included.

S E C R E T

Exhibit 1-G, Page 4 of 8 Pages

S E C R E T

Form #32. Annex G

H. D. of Boston

Cost Estimate and Priority Guide

GAS DEFENSE

Pri-	Item:	Loc.:	Site:				
ority:	No. :	No. :	No. :	Place and Element :	Cost :	Total	
:	:	:	:	to be Protected :	Itemized * :	Cost	

Outer Brewster (Cont'd)

2 126 1-B Constr. #209 - Plotting Rm. & FCSB (Cont'd)

Engineer Installation

Material	\$ 200	
Labor	200	
Contingency	80	\$ 480 (Eng)

Outer Brewster

2 126 1-B Constr. #209 - Latrine

1 Collective Protector	800	
4 Reserve Canisters	1080	1880 (CWS)

Engineer Installation

Material	100	
Labor	100	
Contingency	40	240 (Eng)

Fort Dawes

3 127 1-B Constr. #105 - Plotting Rm. - Radio Rm. & FCSB.

2 Collective Protectors	1600	
8 Reserve Canisters	2160	3760 (CWS)

Engineer Installation

Material	200	
Labor	200	
Contingency	80	480 (Eng)

Fort Dawes

3 127 1-B Constr. #105 - Latrine & Rest Rm.

2 Collective Protector	1600	
8 Reserve Canisters	2160	3760 (CWS)

Engineer Installation

Material	200	
Labor	200	
Contingency	80	480 (Eng)

NOTE * Cost itemized by branch as "C.W.S.", "Engineer", "Quartermaster".
Collective protector units, spare canisters, miscellaneous
materials and labor included.

S E C R E T

Exhibit 1-G, Page 5 of 8 Pages

S E C R E T

Form #32. Annex G

H. D. of Boston

Cost Estimate and Priority Guide

GAS DEFENSE

Pri-	Item:	Loc.:	Site:	:	:	:
ority:	No.:	No.:	No.:	:	Place and Element :	Cost :
:	:	:	:	:	to be Protected :	Itemized * :
:	:	:	:	:	:	Total Cost

Fort Dawes

3	127	1-C	<u>Constr. #207 - Plotting Room</u>		
			1 Collective Protector	\$ 800	
			4 Reserve Canisters	<u>1080</u>	\$1880 (CWS)
			<u>Engineer Installation</u>		
			Material	100	
			Labor	100	
			Contingency	<u>40</u>	240 (Eng)

Fort Dawes

2	127	1-C	<u>Constr. #207 - Latrine</u>		
			1 Collective Protector	800	
			4 Reserve Canisters	<u>1080</u>	1880 (CWS)
			<u>Engineer Installation</u>		
			Material	100	
			Labor	100	
			Contingency	<u>40</u>	240 (Eng)

Fort Banks

1	128	1-A	<u>Harbor Defense Command Post</u>		
			2 Collective Protectors	1600	
			4 Reserve Canisters	<u>2160</u>	3760 (CWS)
			<u>Engineer Installation</u>		
			Material	1000	
			Labor	2000	
			Contingency	<u>600</u>	3600 (Eng)

Fort Banks

1	128	1-A	<u>Fire Control & Post Switchboard Room.</u>		
			1 Collective Protector	800	
			4 Reserve Canisters	<u>1080</u>	1880 (CWS)
			<u>Engineer Installation</u>		
			Material	500	
			Labor	1000	
			Contingency	<u>300</u>	1800 (Eng)

NOTE * Cost itemized by branch as "C.W.S.", "Engineer", "Quartermaster".
Collective protector units, spare canisters, miscellaneous materials and labor included.

S E C R E T

S E C R E T

Form #32. Annex G

H. D. of Boston

Cost Estimate and Priority Guide

GAS DEFENSE

Pri- : Item; Loc. : Site;	:	:	:	:	:	:
ority: No. : No. : No. :	Place and Element :	Cost :	Total :	:	:	:
: : : :	to be Protected :	Itemized * :	Cost :	:	:	:

Fort Ruckman

1	130 2-A	<u>C3-CP</u>		
		1 Collective Protector	\$ 800	
		4 Reserve Canisters	<u>1080</u>	\$1880 (CWS)
		<u>Engineer Installation</u>		
		Material	500	
		Labor	1000	
		Contingency	<u>300</u>	1800 (Eng)

Fort Ruckman

1	130 1-A	<u>Battery Gardner & Switchboard Room</u>		
		2 Collective Protectors	1600	
		8 Reserve Canisters	<u>2160</u>	3760 (CWS)
		<u>Engineer Installation</u>		
		Material	1000	
		Labor	2000	
		Contingency	<u>600</u>	3600 (Eng)

Fort Ruckman

1	130 1-A	<u>Latrine & Rest Room</u>		
		2 Collective Protector	1600	
		8 Reserve Canisters	<u>2160</u>	3760 (CWS)
		<u>Engineer Installation</u>		
		Material	1000	
		Labor	2000	
		Contingency	<u>600</u>	3600 (Eng)

East Point

2	131 3-A	<u>Constr. #206 - Plotting Room</u>		
		1 Collective Protector	800	
		4 Reserve Canisters	<u>1080</u>	1880 (CWS)
		<u>Engineer Installation</u>		
		Material	100	
		Labor	100	
		Contingency	<u>40</u>	240 (Eng)

NOTE * Cost itemized by branch as "C.W.S.", "Engineer", "Quartermaster".
Collective protector units, spare canisters, miscellaneous materials and labor included.

S E C R E T

Exhibit 1-G, Page 7 of 8 Pages

S E C R E T

Form #32. Annex G

H. D. of Boston

Cost Estimate and Priority Guide

GAS DEFENSE

Pri- ority:	Item: No.:	Loc.: No.:	Site: No.:	Place and Element to be Protected	Cost Itemized *	Total Cost
<u>East Point</u>						
2	131	3-A		<u>Constr. #206 - Latrine</u>		
				1 Collective Protector	\$ 800	
				4 Reserve Canisters	<u>1080</u>	\$1880 (CWS)
				<u>Engineer Installation</u>		
				Material	100	
				Labor	100	
				Contingency	<u>40</u>	240 (Eng)
<u>East Point</u>						
3	131	3-B		<u>Constr. #104 - Plotting Rm. - Radio Rm. & FGSE</u>		
				2 Collective Protectors	1600	
				8 Reserve Canisters	<u>2160</u>	3760 (CWS)
				<u>Engineer Installation</u>		
				Material	200	
				Labor	200	
				Contingency	<u>80</u>	480 (Eng)
<u>East Point</u>						
3	131	3-B		<u>Constr. #104 - Latrine & Rest Room</u>		
				2 Collective Protector	1600	
				8 Reserve Canisters	<u>2160</u>	3760 (CWS)
				<u>Engineer Installation</u>		
				Material	200	
				Labor	200	
				Contingency	<u>80</u>	480 (Eng)

Note

This project contemplates the use of decontaminating apparatus and materials for each battery as follows:

- 2 Sets of 3-gallon hand demustardizing apparatus of the pressure type.
- 1 Ton of demustardizing agent (Chloride of lime)
- 3750 pounds of acetylene tetra-chloride.

TOTAL	
ENG	\$ 44,640
CWS	<u>80,840</u>
GRAND TOTAL	\$125,480

NOTE * Cost itemized by branch as "C.W.S.", "Engineer", "Quartermaster". Collective protector units, spare canisters, miscellaneous materials and labor included.

S E C R E T

ANNEX H

SUMMARY OF LAND PROCUREMENT

S E C R E T

HARBOR DEFENSES OF BOSTON

EXHIBITS - ANNEX H

EXHIBITS

CONTENTS

- | | |
|-----|---|
| 1-H | Summary of Land Procurement Recommended (Form #33) |
| 2-H | Map of Proposed Land Acquirement (Form #34) |
| 3-H | Preliminary Data for Proposed Land Acquirement (Form #35) |

S E C R E T

S E C R E T

Form #33, Annex H.

H. D. of Boston

SUMMARY OF LAND PROCUREMENT RECOMMENDED

Loc. No. :	Purpose	Acreage	Estimated Cost	Exhibit	Reference to Authority for procurement
<u>MANOMET POINT</u>					
110	Site No. 1 for one 2-story cottage type observing station	100x150'	\$2,000	2-H-1	Not yet approved
<u>GURNET POINT</u>					
111	Site No. 1 for one 2-story cottage type observing station	200x200'	200	2-H-2	Not yet approved
<u>BRANT ROCK</u>					
112	Site No. 1 for one 2-story steel tower observing station	80x100'	6,350	2-H-3	Not yet approved
	Site No. 2 for one 2-story steel tower observing station	24,020 sq. ft.	7,200	2-H-3	\$7,000 approved A.E.P., Ref. #13.
<u>FLOWERS HILL</u>					
113	Site No. 1 for Btry. #106, Installation 1-A, one steel tower, windmill type; Installation 1-B; and one B.B. Magazine, Installation 1-C	76.54 Acres	55,500	2-H-4	Site Board Ref. #10.
<u>FOURTH CLIFF</u>					
114	Site No. 1 for one 3-story cottage type observing station, Installation 1-A; one 3-story cottage type observing station, Installation 1-B; Btry. #208, Installation #1-C; and one 3-story cottage type observing station Installation 1-D	45 Acres	206,000	2-H-5	Site Board Ref. #10. \$3,600 approved A.E.P., Ref. #13.
<u>STRAWBERRY POINT</u>					
115	Site No. 1 for one 3-story steel tower observing station, Installation 1-A one 3-story cottage type observing station, Installation 1-B one 3-story cottage type observing station, Installation 1-D	17 Acres	24,800	2-H-6	Not yet approved
<u>POINT ALLERTON</u>					
120	Site No. 1 for one 3-story steel cupola type tower observing station	200x200'	22,900	2-H-7	Not yet approved
	Site No. 3 for one 2-story cottage type observing station	62x125'	6,400	2-H-7	Not yet approved

S E C R E T

Exhibit 1-H, Page 1 of 3 pages

S E C R E T

Form #33, Annex H.

H. D. of Boston

SUMMARY OF LAND PROCUREMENT RECOMMENDED

Loc. No. :	Purpose	Acreage	Estimated Cost	Exhibit	Reference to Authority for procurement
<u>FORT RUCKMAN</u>					
130	Site No. 1 for one 3-story cottage type observing station	72'x135'	\$ 3,600	2-H-8	Not yet approved
	Site No 3. B. B. Magazine 3 Sections	38.47 Acres	103,000	2-H-8	Not yet approved
<u>EAST POINT</u>					
131	Site No. 1 for one 3-story cottage type observing station	4,032 sq.ft.	3,500	2-H-9	Not yet approved
	Site No. 2 for one 3-story cottage type observing station	56,400 sq.ft.	38,000		Not yet approved
	Site No. 3 for Btry. #206 and Btry. #104, Part of this site is now Government Property	17 Acres	91,000		Site Board Ref. #10.
	Site No. 4 for one 3-story concrete observing station	71,000 sq.ft.	20,000		Not yet approved
	Site No. 5 for one 3-story cottage type observing station	100x200'	9,100		Not yet approved
<u>MARBLEHEAD NECK</u>					
132	Site No. 1 for one 3-story cottage type observing station	9,050 sq.ft.	15,550	2-H-10	Not yet approved
	Site No. 3 for one 3-story cottage type observing station	66,850 sq.ft.	23,000	2-H-10	Not yet approved
<u>GALES POINT</u>					
133-A	Site No. 1 for one wind mill tower type observing station	100x150'	8,500	2-H-11	Not yet approved
<u>EASTERN POINT</u>					
134-A	Site No. 1 for one 3-story cottage type observing station	100x200'	4,700	2-H-12	Not yet approved
<u>EMERSON POINT</u>					
135	Site No. 1 for one 3-story cottage type observing station	26,135 sq.ft.	8,300	2-H-13	Not yet approved
<u>HALIBUT POINT</u>					
136	Site No. 1 for one 2-story cottage type observing station	2 Acres	5,100	2-H-14	Not yet approved

S E C R E T

Exhibit 1-H, Page 2 of 3 pages

S E C R E T

Form #33, Annex H.

H. D. of Boston

SUMMARY OF LAND PROCUREMENT RECOMMENDED

Loc: No.:	Purpose	: :Acreage	: : Cost	:Estimated:Exhi- : bit	:Reference to Author- :ity for procurement
	<u>CASTLE HILL</u>				
137	Site No. 1 for one 2-story cottage type observing station	100x150'	*	2-H-15	Not yet approved

* Included in H D Portsmouth Cost Estimate.

Total Modernization Program \$664,700

Approved A. E. P. Ref. #13 10,600

Total additional required \$654,100

S E C R E T

Exhibit 1-H, Page 3 of 3pgs.

S E C R E T

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 110

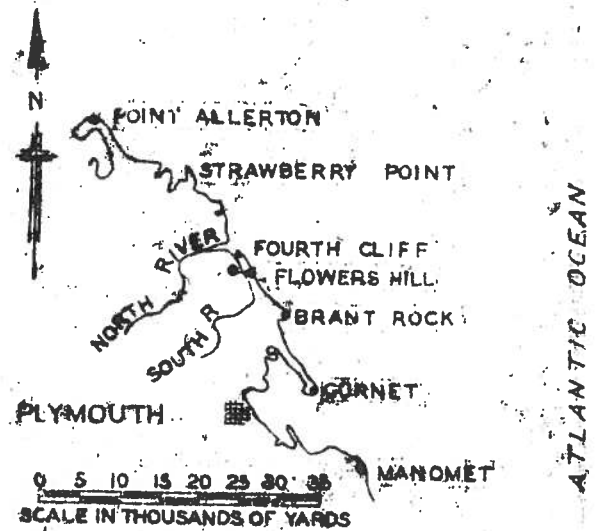
Place (Local Name) Manomet

Town Plymouth County Plymouth State Mass.

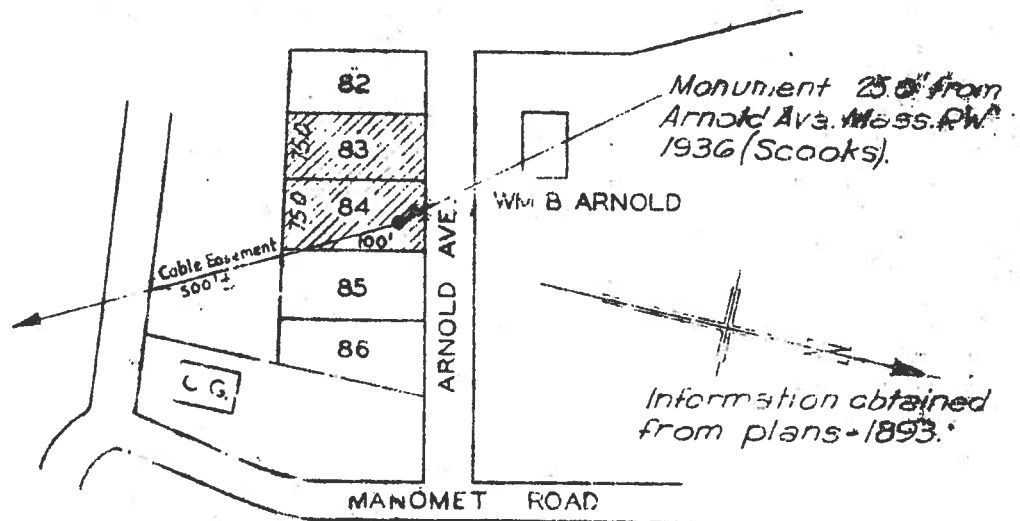
List of Ownership involved
with reference to individual
holdings or easements:

INSERT MAP
GENERAL LOCALITY

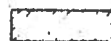
Abbie Arnold Estate
Homer Arnold, Trustee
First National Bank
Boston, Mass.



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



Not to scale

 LAND TO BE ACQUIRED

S E C R E T

SECRET

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 111

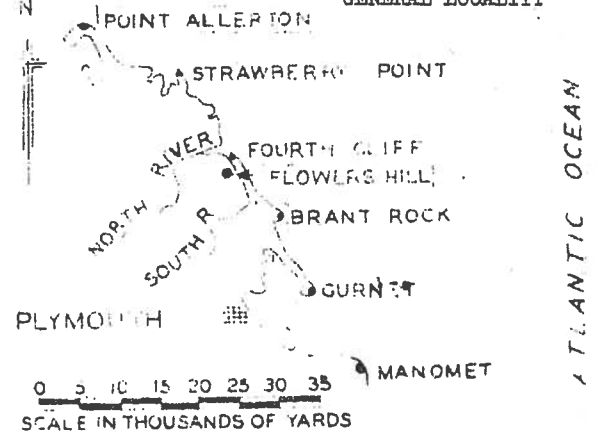
Place (Local Name) Gurnet Point

Town Plymouth County Plymouth State Mass.

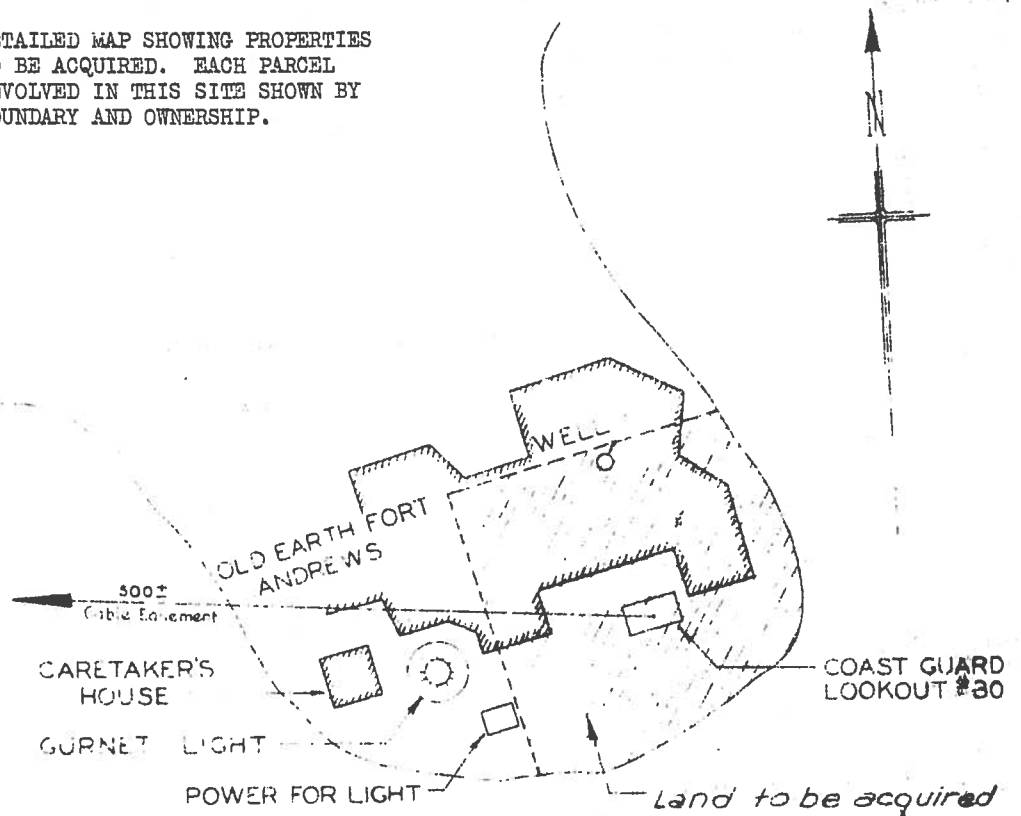
List of Ownership involved
with reference to individual
holdings or easements:

U. S. Gov't.
Treasury Department
Bureau of Lighthouses

INSERT MAP
GENERAL LOCALITY



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



NOT TO SCALE

SECRET

Exhibit 2-H, Page 2 of 15 pages

SECRET

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 112

Place (Local Name) Brant Rock

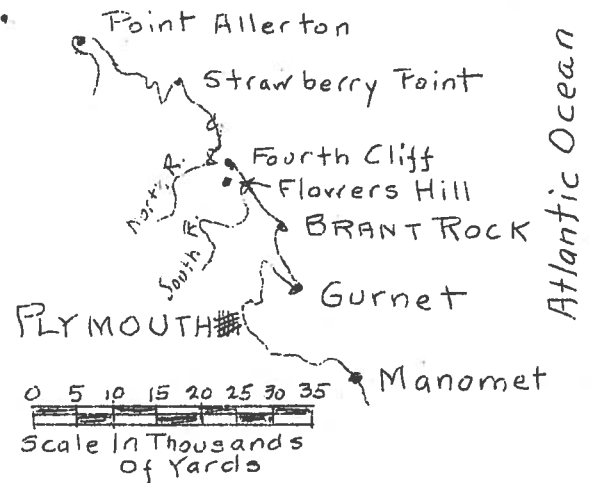
Town Marshfield County Plymouth State Mass.

List of Ownership involved
with reference to individual
holdings or easements:

INSERT MAP
GENERAL LOCALITY

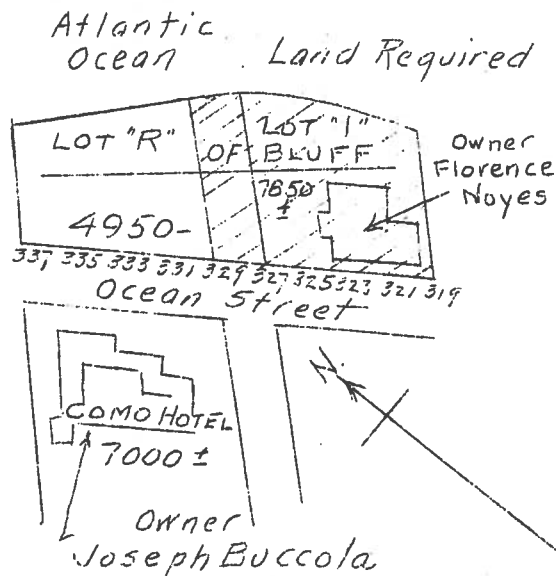
Site #1.- Lot 1, Florence H. Noyes
Abington, Mass.

Site #2.- James F. Flynn
Boston, Mass..

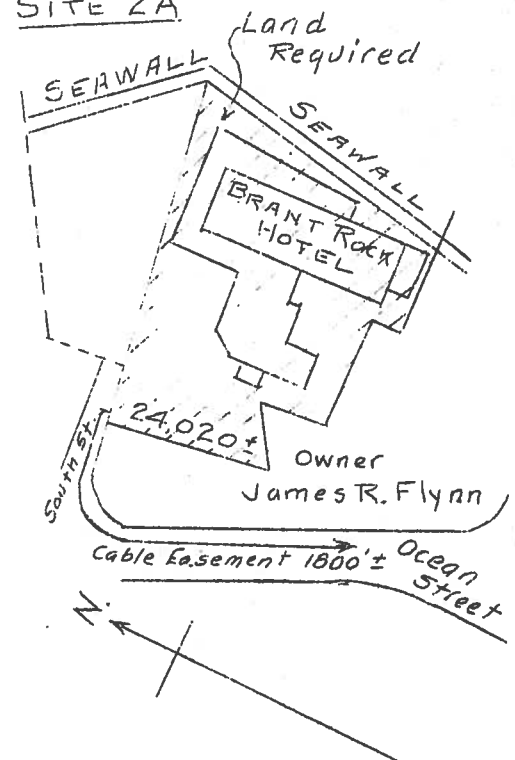


DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.

SITE 1A



SITE 2A



1" = 100' Approx.

SECRET

SECRET

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 113

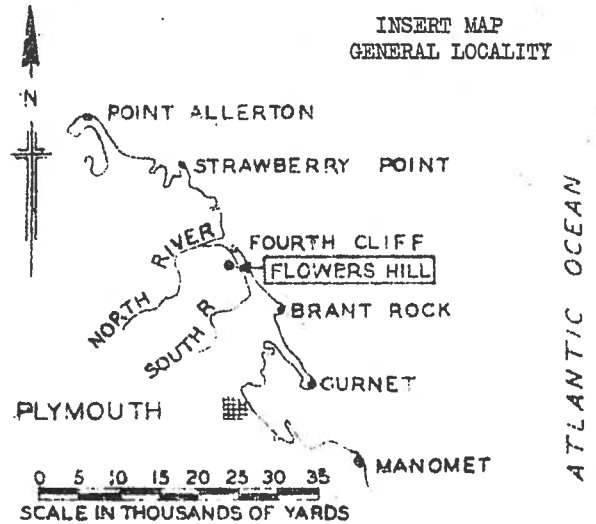
Place (Local Name) Flowers Hill

Town Marshfield County Plymouth State Mass.

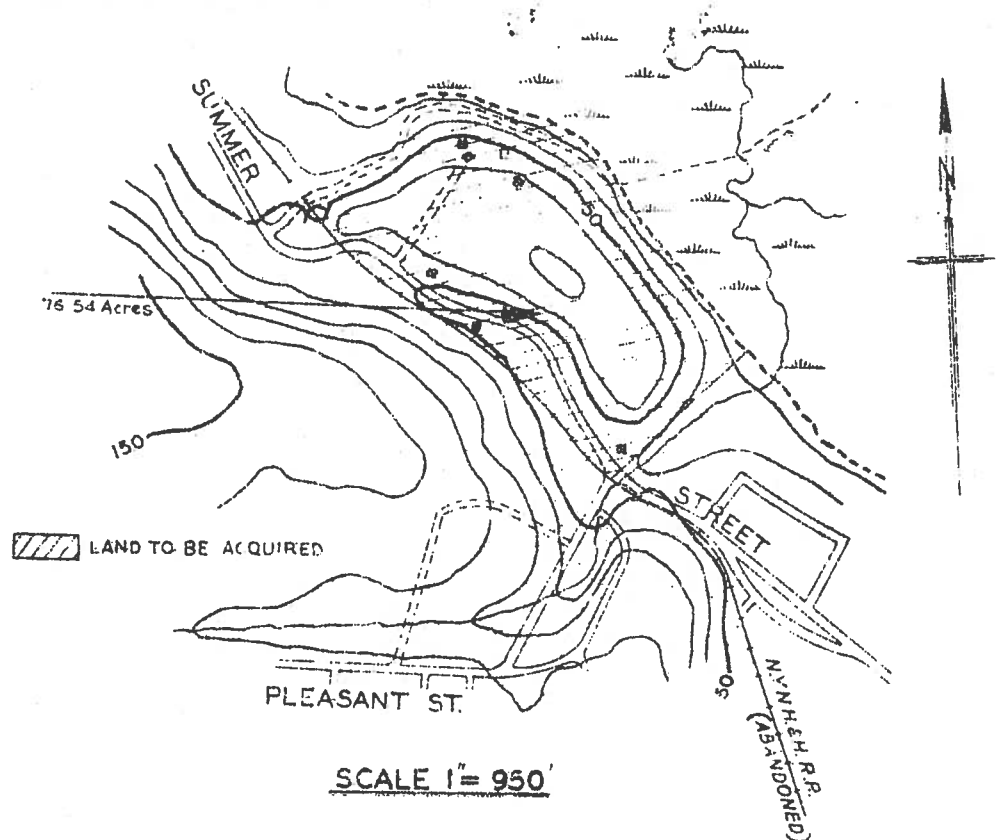
List of Ownership involved
with reference to individual
holdings or easements:

Charles Bendix
Robert DeMulder
F. Robert Smith
Sarah R. Livermore
Martha P. Flowers
Thomas R. Young
Lorraine L. Fitzgerald
Edwin A. Parker
Wesley Ames
N. Y., N. H. & H. R.R.

INSERT MAP
GENERAL LOCALITY



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



SECRET

Exhibit 2-H, Page 4 of 15 pages

S E C R E T

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 114

Place (Local Name) Fourth Cliff

Town Scituate County Plymouth State Mass.

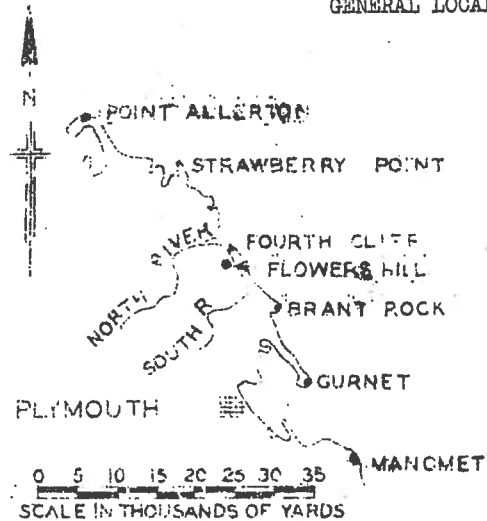
List of Ownership involved
with reference to individual
holdings or easements:

INSERT MAP
GENERAL LOCALITY

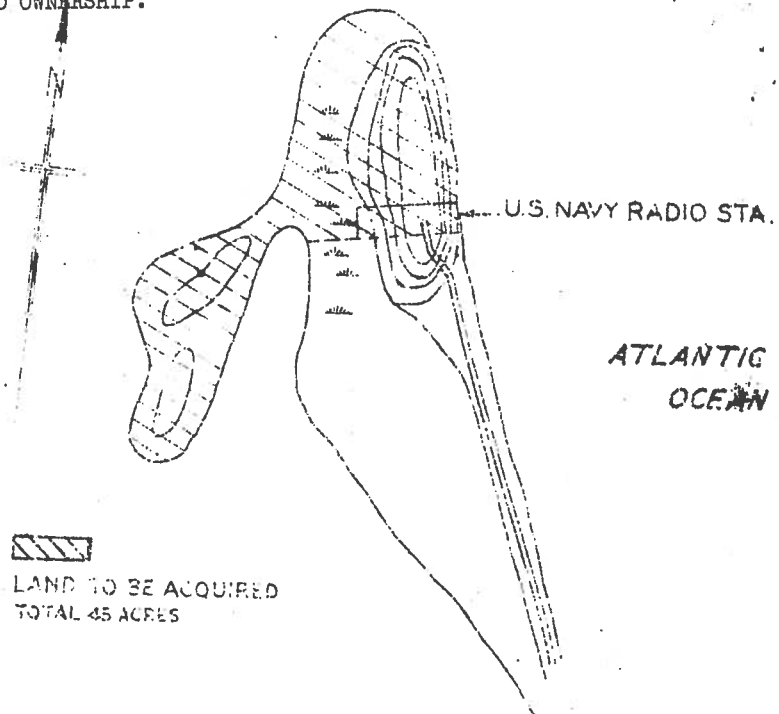
Silver Sands Development Co.,

100 individual owners

U. S. Navy Station to be
transferred.



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



Not to scale

S E C R E T

SECRET

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 115

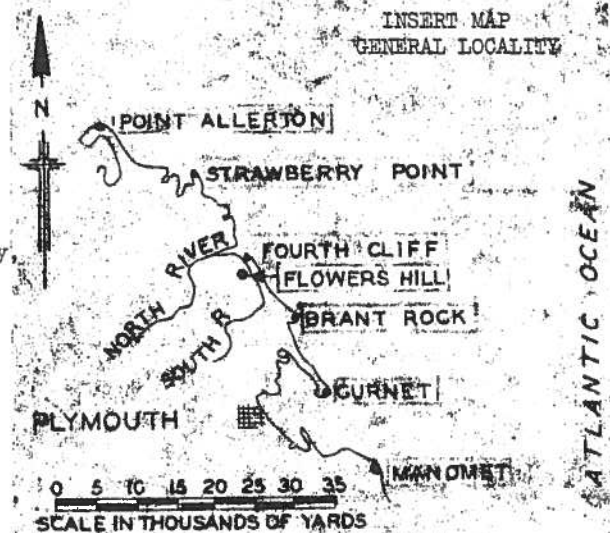
Place (Local Name) Strawberry Point

Town Scituate County Plymouth State Mass.

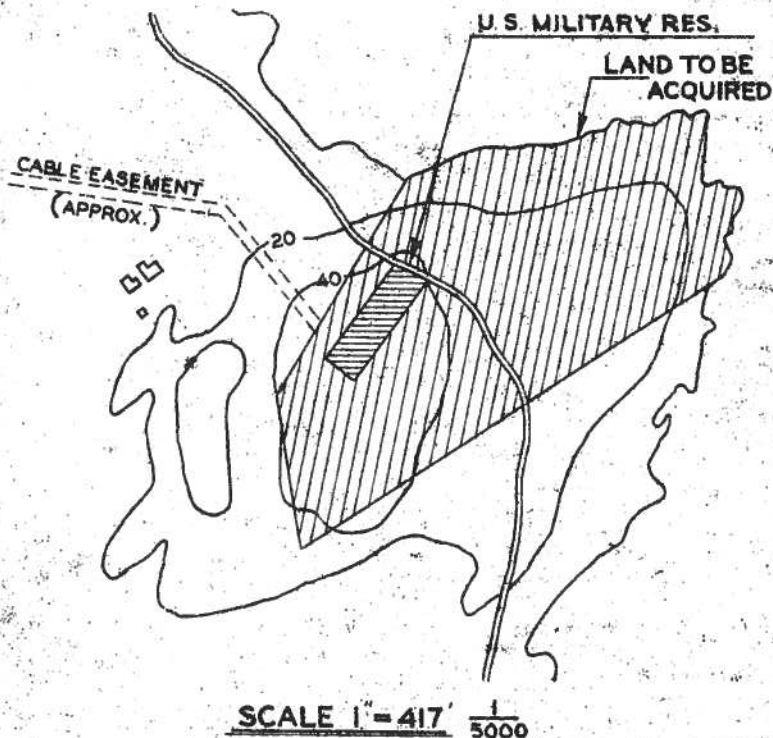
List of Ownership involved
with reference to individual
holdings or easements:

The Glades Association
Charles E. Adams
15 State St., Boston, Mass.

Lot 100' x 300', approximately,
now owned by U. S. Gov't.
Existing right-of-way and
cable easement.



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



SECRET

S E C R E T

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 120

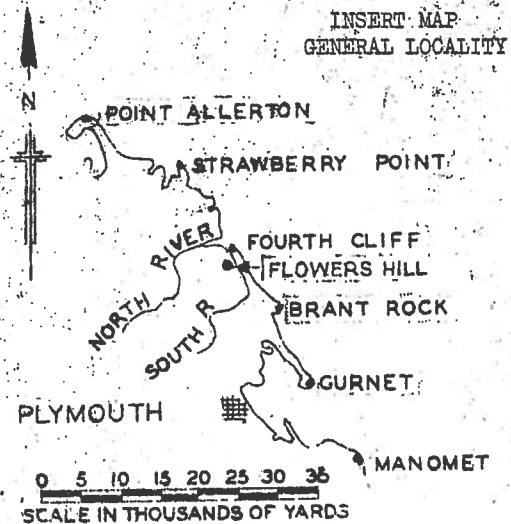
Place (Local Name) Point Allerton

Town Hull County Plymouth State Mass.

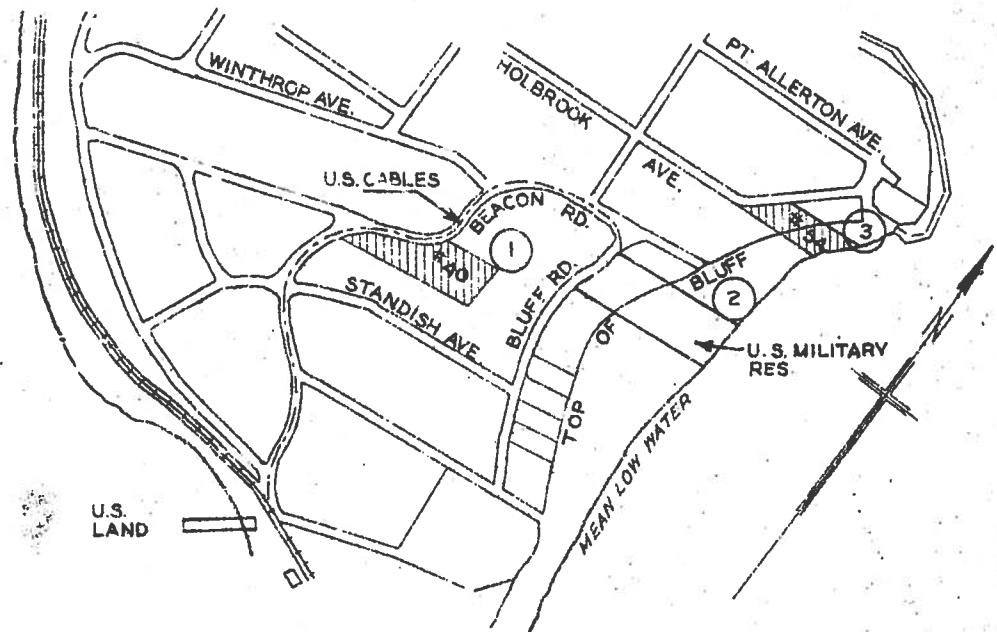
List of Ownership involved
with reference to individual
holdings or easements:

Site #1, #40 Beacon Rd.-
Boston Safe Deposit & Trust Co.
Boston, Mass.

Site #3, #54 Holbrook Ave.-
Charles E. Beverlander
Hull, Mass.



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



LAND TO BE ACQUIRED

S E C R E T

SECRET

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 130

Place (Local Name) Fort Ruckman

Town Nahant

County Essex

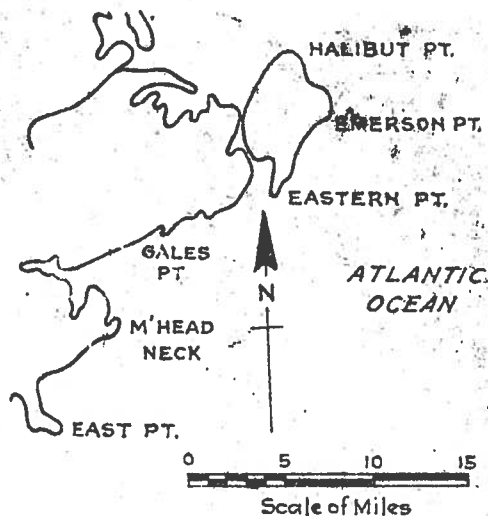
State Mass.

List of Ownership involved
with reference to individual
holdings or easements:

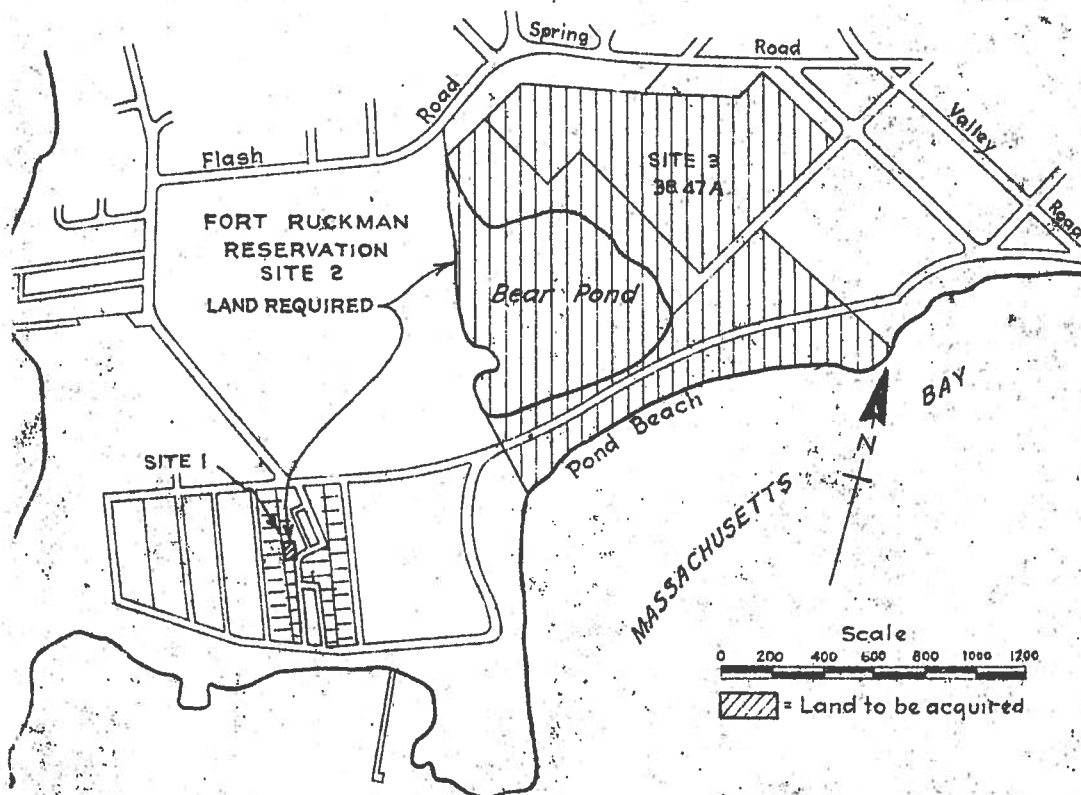
INSERT MAP
GENERAL LOCALITY

Site #1.- Edward Harris
Lynn, Mass.

Site #3.- Nahant Country Club
Nahant, Mass.



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



SECRET

S E C R E T

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 131

Place (Local Name) East Point

Town Nahant County Essex State Mass.

List of Ownership involved
with reference to individual
holdings or easements:

Sites #1 and #3.-

H. P. Elliott
272 School Street
Watertown, Mass.

Site #2.-

Charlotte L. Lowell
Westwood, Mass.

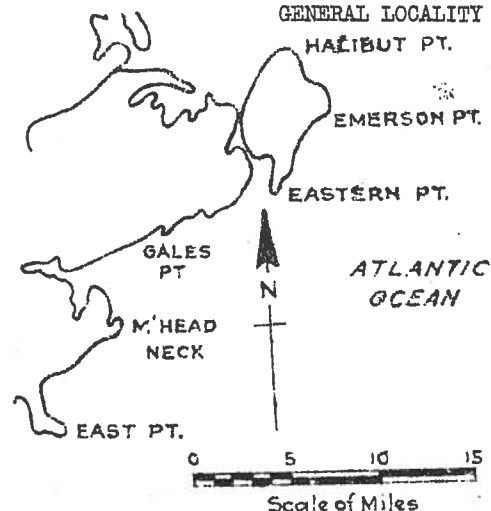
Site #5.-

Thomas G. Brown
43 Circuit Road
Brookline, Mass.

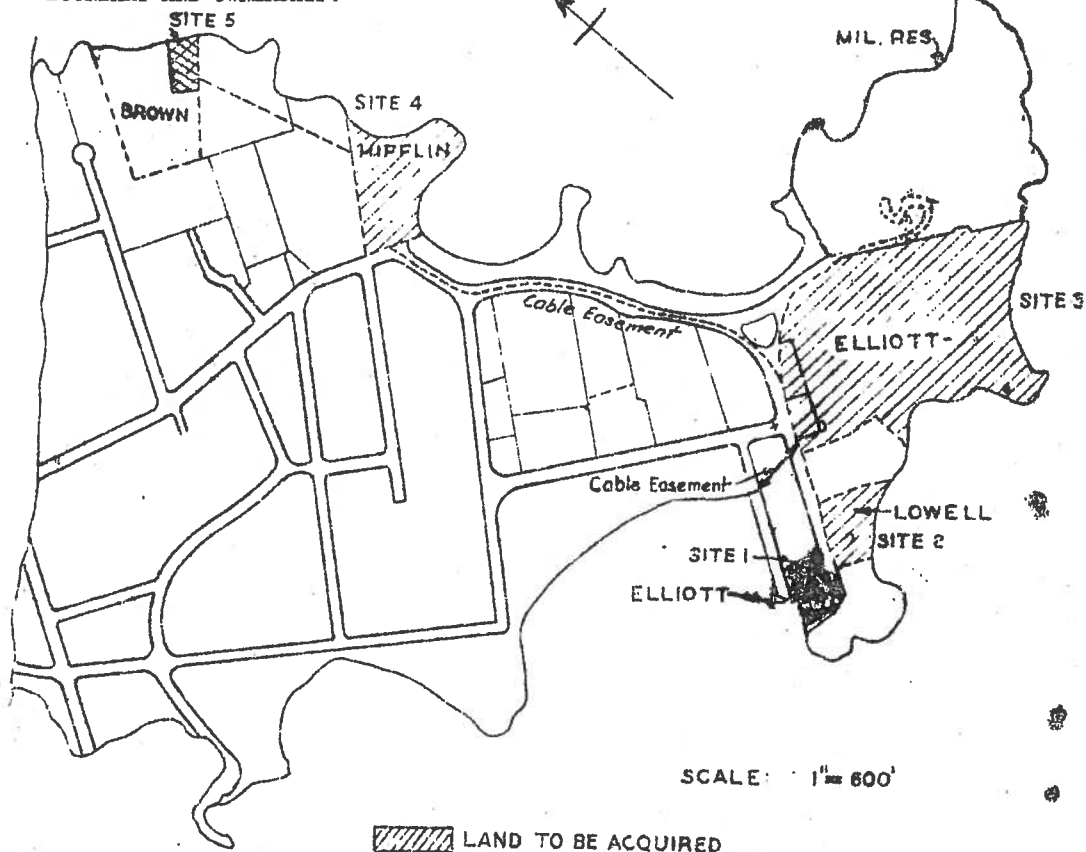
Site #4.-

J. E. Mifflin Estate
Augustus P. Loring, Jr., Trustee
35 Congress Street
Boston, Mass.

INSERT MAP
GENERAL LOCALITY



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



S E C R E T

Exhibit 2-H, Page 9 of 15 pages

S E C R E T

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 132

Place (Local Name) Marblehead Neck

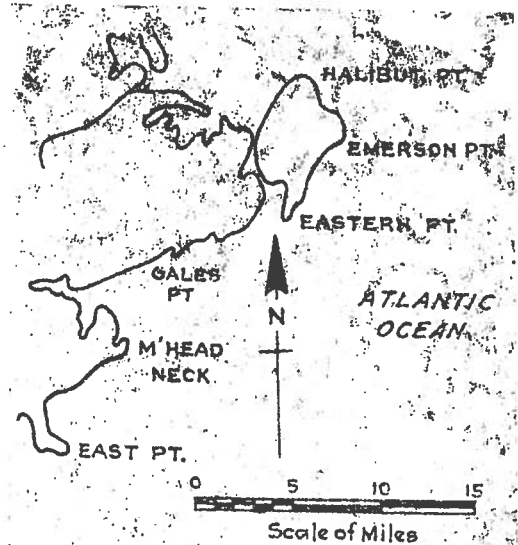
Town Marblehead County Essex State Mass.

List of Ownership involved
with reference to individual
holdings or easements:

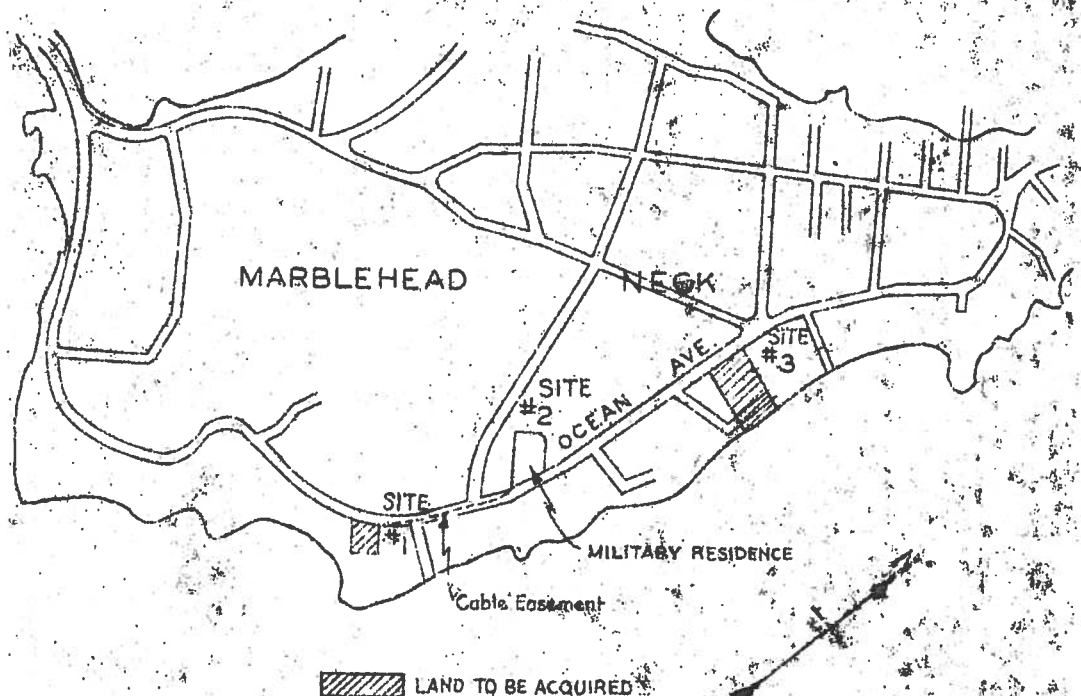
INSERT MAP
GENERAL LOCALITY

Site #1.- R. MacDonald
Salem, Mass.

Site #3.- Ransom B. Fuller Trust
Boston, Mass.
First National Bank,
Trustee



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



SCALE: 1" = 750'

S E C R E T

Exhibit 2-H, Page 10 of 15 pages

S E C R E T

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

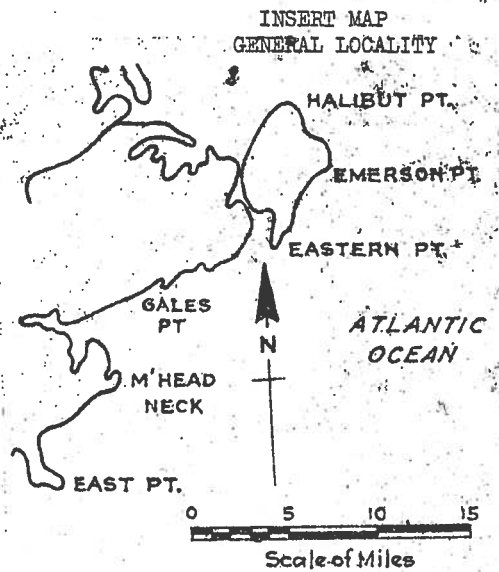
Location No. 133A

Place (Local Name) Gales Point

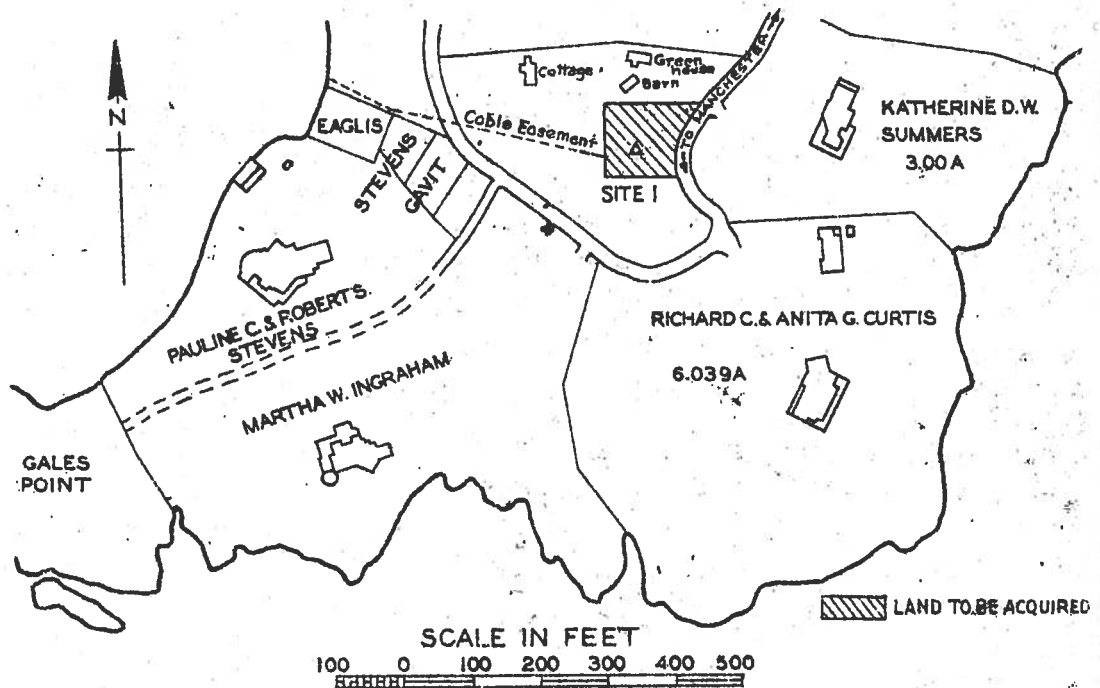
Town Manchester County Essex State Mass.

List of Ownership involved
with reference to individual
holdings or easements:

Mary Sumner Elliott
Essex Falls, N. J.



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



S E C R E T

Exhibit 2-H, Page 11 of 15 pages

S E C R E T

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 134A

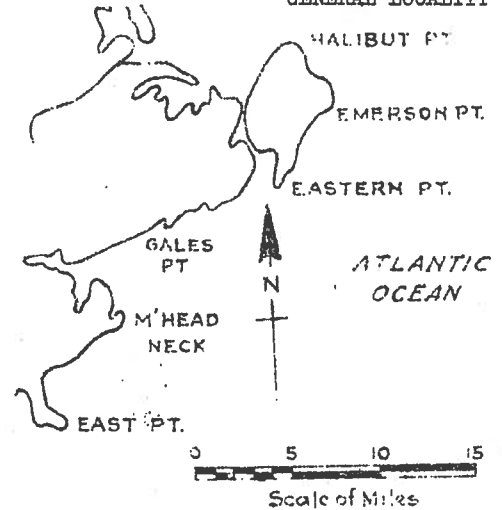
Place (Local Name) Eastern Point

Town Gloucester County Essex State Mass.

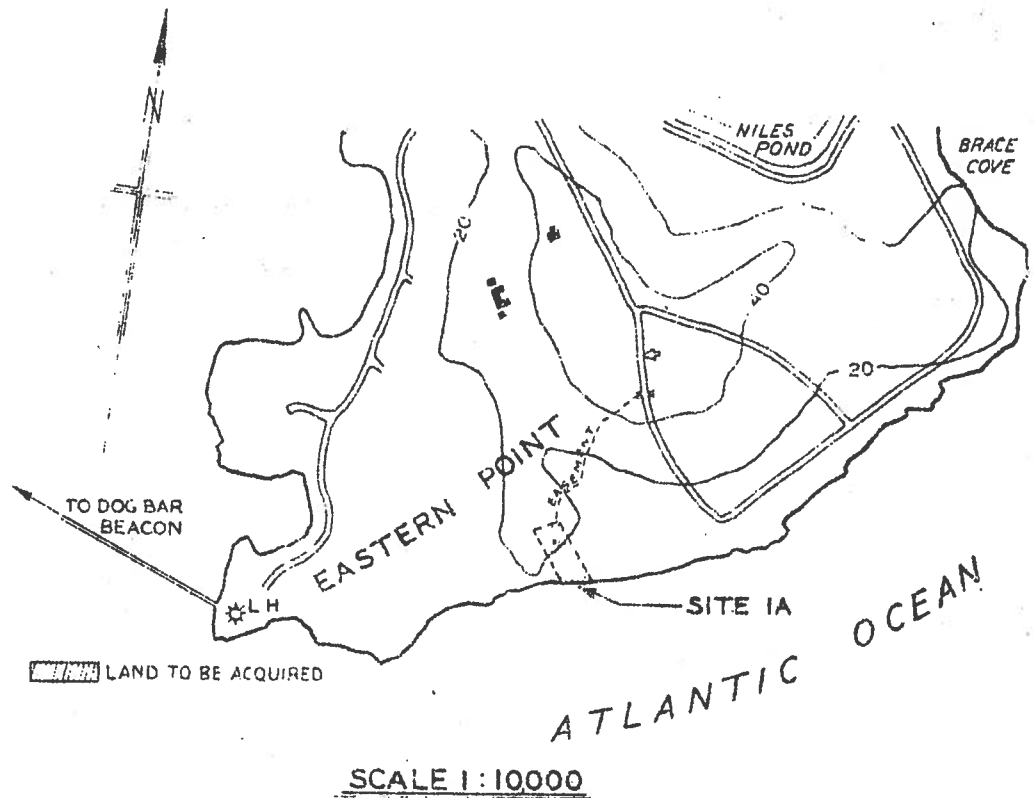
List of Ownership involved
with reference to individual
holdings or easements:

Mrs. S. A. Raymond
3826 Euclid Avenue
Cleveland, Ohio

INSERT MAP
GENERAL LOCALITY



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



S E C R E T

Exhibit 2-H, Page 12 of 15 pages

SECRET

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 135

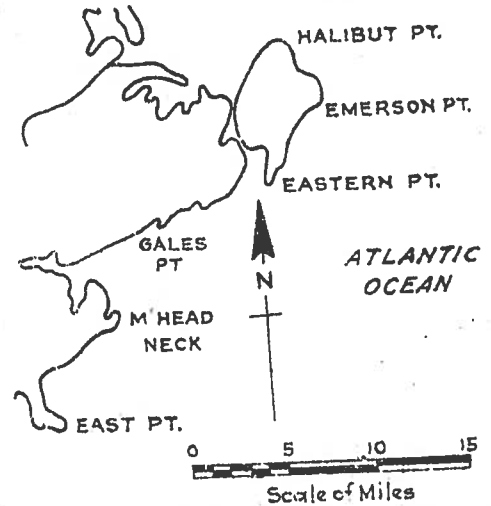
Place (Local Name) Emerson Point

Town Rockport County Essex State Mass.

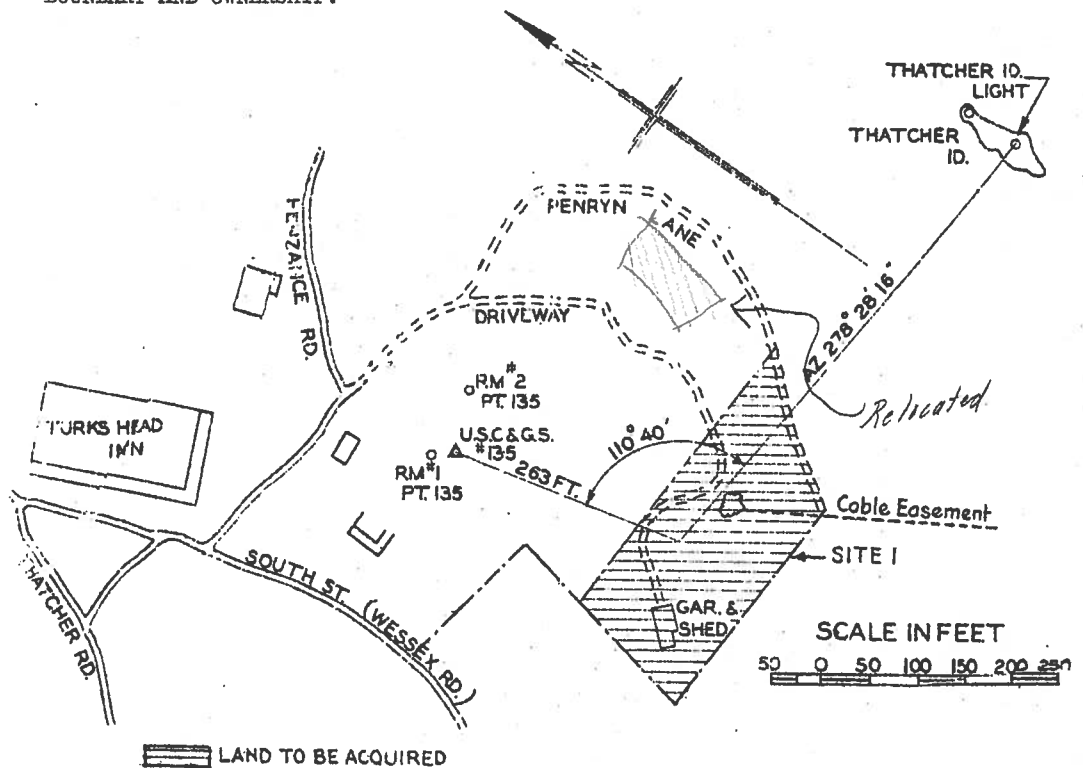
List of Ownership involved
with reference to individual
holdings or easements:

Thomas Worcester
Waltham, Mass.

INSERT MAP
GENERAL LOCALITY



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



SECRET

S E C R E T

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

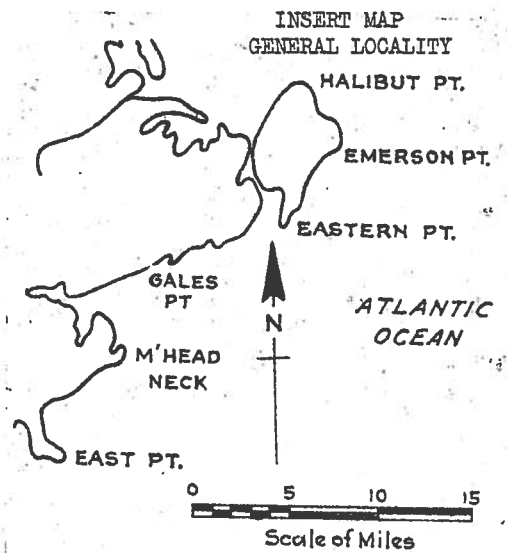
Location No. 136

Place (Local Name) Halibut Point

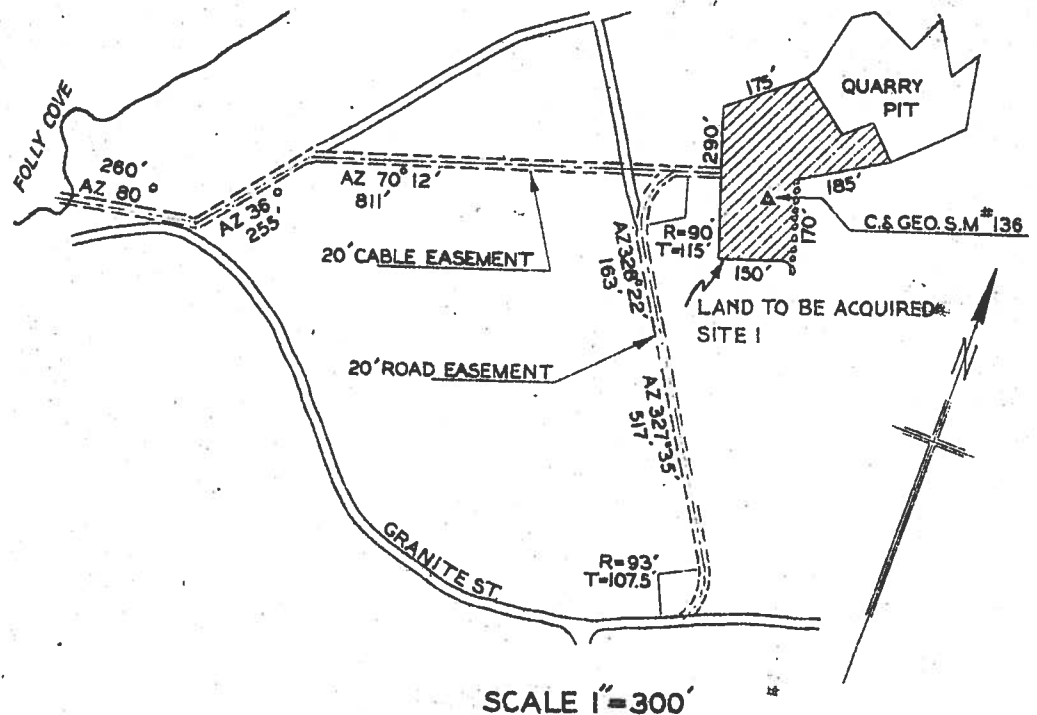
Town Rockport County Essex State Mass.

List of Ownership involved
with reference to individual
holdings or easements:

Courtney C. Wright, Trustee
Rockport Granite Company
27 Sears Avenue
Melrose Highlands, Mass.



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



S E C R E T

Exhibit 2-H, Page 14 of 15 pages

S E C R E T

Form #34, Annex H.

H. D. of Boston

MAP OF PROPOSED LAND ACQUIREMENT

Location No. 137

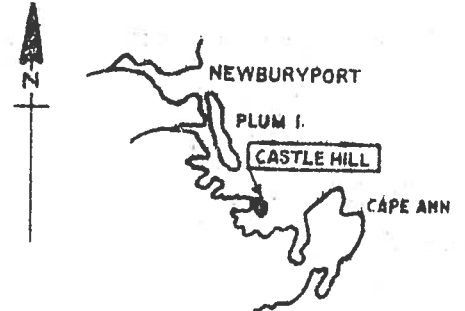
Place (Local Name) Castle Hill

Town Ipswich County Essex State Mass.

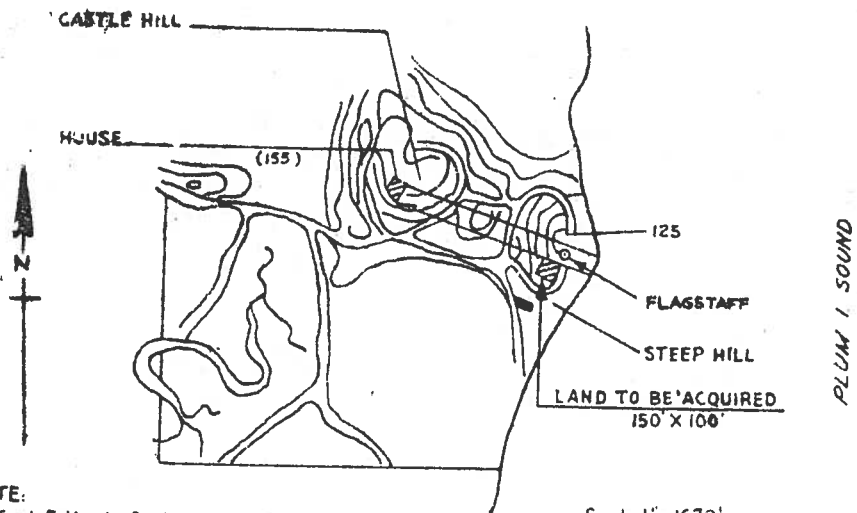
List of Ownership involved
with reference to individual
holdings or easements:

INSERT MAP
GENERAL LOCALITY

Florence E. Crane
836 Michigan Avenue
Chicago, Illinois



DETAILED MAP SHOWING PROPERTIES
TO BE ACQUIRED. EACH PARCEL
INVOLVED IN THIS SITE SHOWN BY
BOUNDARY AND OWNERSHIP.



NOTE:
Cost Estimate for land and station
included in H. D. Portsmouth Project

Scale 1" = 1670'

S E C R E T

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 110

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of AAIS-OP #1, B₁¹ S₁¹, C₁¹-OP
2. Place (Local name) MANOMET POINT
Town PLYMOUTH County PLYMOUTH State MASSACHUSETTS
3. Owner: Name Abbie Arnold Estate, - Homer Arnold, Trustee,
Address First National Bank, Boston, Mass.
4. Area to be acquired Lots 83 and 84 - Approximately 100' x 150'
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? - - - Summer Estate? - - -
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? No No. & Type _____
9. Is site contiguous to public road? Yes - Arnold Avenue
10. Is easement required for right of way? No Length _____
11. Is easement required for cable? Yes Length 500 ft.
12. Assessed value of land \$200 Buildings None
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$1,500
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement 100
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 200
18. Estimated cost of legal transfer 200
19. Total estimated cost of site \$2,000
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

Item 12 -- 40 lots assessed at \$4,000

S E C R E T

Exhibit 3H, Page 1 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 111

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of AAIS-OP #2 B₁² S₁²; B₂¹ S₂¹
2. Place (Local name) GURNET POINT
Town PLYMOUTH County PLYMOUTH State MASSACHUSETTS
3. Owner: Name Government Property, Treasury Department
Address Washington, D. C.
4. Area to be acquired 200' x 200' transferred.
5. Site is: Developed? Undeveloped? Yes.
6. Site is part of: Farm? --- Summer Estate? ---
7. Active shore lot development? Inactive? Yes
8. Does site include buildings? Yes No. & Type
One (1) Coast Guard observation station
9. Is site contiguous to public road? No - 5 1/2 miles sandy beach
10. Is easement required for right of way? No Length
11. Is easement required for cable? No Length
12. Assessed value of land --- Buildings ---
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings None
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys \$200.00
18. Estimated cost of legal transfer None
19. Total estimated cost of site \$200.00
20. Do you believe condemnation proceedings necessary? No.

REMARKS: (Refer to numbered items)

#8. Provision to be made for C.G. to have glass cage on top of cottage

S E C R E T

Exhibit 3H, Page 2 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 112

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT Site #1

1. For installation of AAIS-OP #3 B2 S2, B12 S12
2. Place (Local name) Brant Rock
Town Marshfield County Plymouth State Massachusetts
3. Owner: Name Florence Noyes
Address Abbingdon, Mass.
4. Area to be acquired 80' x 100' Approximately 7850 sq. ft.
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? No Summer Estate? Yes.
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type One old summer home;
in need of repairs.
9. Is site contiguous to public road? Yes.
10. Is easement required for right of way? None Length _____
11. Is easement required for cable? None Length _____
12. Assessed value of land \$1,000.00 Buildings \$3,500.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$6000.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None.
17. Estimated cost of taking surveys \$150.00
18. Estimated cost of legal transfer \$200.00
19. Total estimated cost of site \$6,350.00
20. Do you believe condemnation proceedings necessary? No.

REMARKS: (Refer to numbered items)

S E C R E T

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 112

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT Site #2

1. For installation of $B_5^1 S_5^1$; $B_1^3 S_1^3$
2. Place (Local name) BRANT ROCK
Town MARSHFIELD County PLYMOUTH State MASSACHUSETTS
3. Owner: Name James F. Flynn.
Address Boston, Mass.
4. Area to be acquired 141' x 200' Approx. 24,020 sq. ft.
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? _____
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type _____
One unoccupied hotel. Building is unsafe and run-down.
9. Is site contiguous to public road? Yes.
10. Is easement required for right of way? None. Length _____
11. Is easement required for cable? None. Length _____
12. Assessed value of land \$2,500.00 Buildings \$1,000.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$6,750.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys \$200.00
18. Estimated cost of legal transfer \$250.00
19. Total estimated cost of site \$7,200.00
20. Do you believe condemnation proceedings necessary? No.

REMARKS: (Refer to numbered items)

#16. Building to be left standing to assist in protective concealment.

S E C R E T

Exhibit 3H, Page 4 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 113

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of Btry #1; BC₁ & BB Magazine
2. Place (Local name) FLOWER'S HILL (Near Fourth Cliff)
Town MARSHFIELD County PLYMOUTH State MASSACHUSETTS
3. Owner: Name Charles Bendix, Lorraine Fitzgerald, Edwin Parker,
Robert DeMulder, F. Robert Smith, Sarah Livermore,
Martha P. Flowers, Wesley Anos, Thomas E. Young.
Address Most of them live on site. N.Y., N.H. & H RR.
4. Area to be acquired 76.54 acres
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? Yes Summer Estate? _____
7. Active shore lot development? No. Inactive? Yes.
8. Does site include buildings? Yes. No. & Type six (6) summer
houses and 2 farm houses, wood frame.
9. Is site contiguous to public road? Yes.
10. Is easement required for right of way? No. Length _____
11. Is easement required for cable? Yes. Length 1000'
12. Assessed value of land \$9,400.00 Buildings \$20,250.00
If no land, or right-of-way is required, state, "none
required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$52,500.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys \$1,000.00
18. Estimated cost of legal transfer \$2,000.00
19. Total estimated cost of site \$55,500.00
20. Do you believe condemnation proceedings necessary? Yes.

REMARKS: (Refer to numbered items)

#4 Entire area to be charged to Btry #106.

S E C R E T

Exhibit 3H, Page 5 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 114

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of AAIS-CP #4 Btry #2, B⁴S⁴; B³S³; B²S²; B⁰S²,
B²S²; B¹S¹; B¹S¹; GI-CP, GI-CP
2. Place (Local name) FOURTH CLIFF
Town SCITUATE County PLYMOUTH State MASSACHUSETTS
3. Owner: Name Silver Sands Development Co.
Address 100 Individual owners. U. S. Navy Station to be transferred.
4. Area to be acquired 45 Acres
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? _____
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type 41 Summer Cottages
9. Is site contiguous to public road? Yes.
10. Is easement required for right of way? None Length _____
11. Is easement required for cable? None Length _____
12. Assessed value of land See remarks Buildings See remark
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$200,000.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None.
17. Estimated cost of taking surveys \$500.00
18. Estimated cost of legal transfer \$5,500.00
19. Total estimated cost of site \$206,000.00
20. Do you believe condemnation proceedings necessary? Yes.

REMARKS: (Refer to numbered items.)

#4 - Entire Area charges to Btry. #208.

#12 - Assessed valuation not available as houses are being built almost continuously.

S E C R E T

Exhibit 3H, Page 6 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 115

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of. AAIS-OP #5, B¹₁₅S¹₁₅; B¹₁₃S¹₁₃; B⁵₁S⁵₁; B³₁₂S³₁₂; B⁴₂S⁴₂;
G2 - OP, G2 - OP, B²₁₆S²₁₆; B²₁₁S²₁₁; C²₁ - OP B³₅S³₅; B¹₁₄S¹₁₄;
2. Place (Local name) STRAWBERRY POINT
Town SCITUATE County PLYMOUTH State MASSACHUSETTS
3. Owner: Name Glados Association.
Address 15 State Street, Boston, Mass.
4. Area to be acquired Approximately 17 Acres
5. Site is: Developed? _____ Undeveloped? Yes
6. Site is part of: Farm? _____ Summer Estate? Yes
7. Active shore lot development? No Inactive? _____
8. Does site include buildings? None No. & Type _____
9. Is site contiguous to public road? No.
10. Is easement required for right of way? Exists Length _____
11. Is easement required for cable? Exists Length _____
12. Assessed value of land \$700/Acre Buildings _____
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$24,000.00
14. Estimated cost of right-of-way Exists
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys \$500.00
18. Estimated cost of legal transfer \$300.00
19. Total estimated cost of site \$24,800.00
20. Do you believe condemnation proceedings necessary? Yes.

REMARKS: (Refer to numbered items)

#1 - B³₅ Long & B¹₁₄ Gardner located in existing tower on site.

Now owned by U. S. GOVERNMENT. Area .74 Acres.

S E C R E T

Exhibit 3H, Page 7 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 120

Site #1

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of AAIS-OP #7 $B^3 S^3_{16 16}; B^3 S^3_{11 11}; B^2 S^2_{13 13}$
2. Place (Local name) POINT ALLERTON
Town HULL County PLYMOUTH State MASSACHUSETTS
3. Owner: Name TUFTS ESTATE; BOSTON SAFE DEPOSIT AND TRUST CO.,
Address BOSTON, MASS.
4. Area to be acquired 38,003 SQ. FT. (approximately 200' x 200')
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? Yes
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type _____
One (1) 2-story summer house
9. Is site contiguous to public road? Yes (Beacon Road)
10. Is easement required for right of way? No Length _____
11. Is easement required for cable? No (Exists) Length _____
12. Assessed value of land \$6,445.00 Buildings \$8,100.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$22,500.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 200.00
18. Estimated cost of legal transfer 200.00
19. Total estimated cost of site 22,900.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

#20. Property marked for sale.

S E C R E T

Exhibit 3H, Page g of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 120

Site #3

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of $B^4S^4_{1212}; B^2S^2_{1515}$
2. Place (Local name) POINT ALLERTON
Town HULL County PLYMOUTH State MASSACHUSETTS
3. Owner: Name CHARLES E. BEVERLANDER
Address 54 Holbrook Ave., Hull, Mass.
4. Area to be acquired 62' x 125' approximately; 8,220 sq. ft.
(Land on which cottage is located)
5. Site is: Developed? Yes Undeveloped?
6. Site is part of: Farm? Summer Estate?
7. Active shore lot development? Yes Inactive?
8. Does site include buildings? Yes No. & Type
One (1) 3-story cottage
9. Is site contiguous to public road? Yes (Holbrook Avenue)
10. Is easement required for right of way? No Length
11. Is easement required for cable? Yes Length 300 feet
12. Assessed value of land \$1,065.00 Buildings \$3,000
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$6,000.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement 50.00
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 150.00
18. Estimated cost of legal transfer 200.00
19. Total estimated cost of site 6,400.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

S E C R E T

Exhibit 3H, Page 9 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 130

Site #1

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of ~~B⁴S⁴10:54SH~~; C3 - CP, BC14
2. Place (Local name) FORT HUCKMAN
Town NAHANT County ESSEX State MASSACHUSETTS
3. Owner: Name Edward Harris, Harris Steam Laundry
Address Lynn, Mass.
4. Area to be acquired 72' x 135' approximately; 11,260 sq. ft.
5. Site is: Developed? Yes Undeveloped?
6. Site is part of: Farm? Summer Estate?
7. Active shore lot development? Yes Inactive?
8. Does site include buildings? No No. & Type
9. Is site contiguous to public road? Yes, Kenny Avenue.
10. Is easement required for right of way? No Length
11. Is easement required for cable? Yes Length 300 ft.
12. Assessed value of land \$1,689.00 Buildings None
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$3000.00
14. Estimated cost of right-of-way None.
15. Estimated cost of cable easement \$100.00
16. Estimated cost removal of utilities None.
17. Estimated cost of taking surveys \$250.00
18. Estimated cost of legal transfer \$250.00
19. Total estimated cost of site \$3,600.00
20. Do you believe condemnation proceedings necessary? No.

REMARKS: (Refer to numbered items)

S E C R E T

Exhibit 3H, Page 10 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 130

Site #3

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of AB Magazine
2. Place (Local name) FORT RUCKMAN
Town NAHANT County ESSEX State MASSACHUSETTS
3. Owner: Name Nahant Country Club
Address Nahant, Mass.
4. Area to be acquired 38.47 acres
5. Site is: Developed? Yes Undeveloped? ---
6. Site is part of: Farm? --- Summer Estate? Golf Course
7. Active shore lot development? --- Inactive? ---
8. Does site include buildings? No No. & Type ---
9. Is site contiguous to public road? Yes, Willow Road
10. Is easement required for right of way? No Length ---
11. Is easement required for cable? Length ---
12. Assessed value of land \$42,610.00 Buildings \$28,900.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$100,000.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys \$500.00
18. Estimated cost of legal transfer \$2,500.00
19. Total estimated cost of site \$103,000.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

S E C R E T

Exhibit 3H, Page 11 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 131

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

Site #1

1. For installation of ~~AAIS-OP #8~~, ~~B3-S3~~¹⁵; ~~B5-S5~~¹²; ~~G3-CP~~, ~~G3-CP~~
2. Place (Local name) EAST POINT
Town NAHANT County ESSEX State MASSACHUSETTS
3. Owner: Name H. P. Elliott
Address 272 School Street, Watertown, Mass.
4. Area to be acquired 1/2 Lot A 4032 sq. ft.
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? _____
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type 1 Garage
9. Is site contiguous to public road? Yes, Swallow Cave Road.
10. Is easement required for right of way? No Length _____
11. Is easement required for cable? Yes Length 300'
12. Assessed value of land \$1,008.00 Buildings \$300.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$3,000.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys \$200.00
18. Estimated cost of legal transfer \$300.00
19. Total estimated cost of site \$3,500.00
20. Do you believe condemnation proceedings necessary? No.

REMARKS: (Refer to numbered items)

S E C R E T

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 131
Site #2

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of $B^4 S^4$; $B^3 S^3$; $B C$
16 16; 14 14; 15
2. Place (Local name) EAST POINT
Town NAHANT County ESSEX State MASSACHUSETTS
3. Owner: Name Charlotte L. Lowell
Address Westwood, Mass.
4. Area to be acquired 56,400 sq.ft. Lot 6, Map #1
5. Site is: Developed? yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? Yes
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type _____
One (1) 2-story summer home and one (1) garage
9. Is site contiguous to public road? Yes (Swallow Cave Road)
10. Is easement required for right of way? No Length _____
11. Is easement required for cable? Yes Length 200 ft.
12. Assessed value of land \$12,000.00 Buildings \$12,000.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$37,500.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 300.00
18. Estimated cost of legal transfer 200.00
19. Total estimated cost of site 38,000.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

S E C R E T

Exhibit 3H, Page 13 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 131

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT Site #3

1. For installation of Btry #15 and Btry #16
2. Place (Local name) EAST POINT
Town NAHANT County ESSEX State MASSACHUSETTS
3. Owner: Name H. P. Elliott
Address 272 School Street, Watertown, Mass.
4. Area to be acquired 595,100 sq. ft. Lot 8 - 9 - 10, Map #1
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? Yes
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type One summer
Estate with additional buildings.
9. Is site contiguous to public road? Yes, Swallow Cave Road
10. Is easement required for right of way? No Length _____
11. Is easement required for cable? Yes Length 500 ft.
12. Assessed value of land \$55,625.00 Buildings \$31,000.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$90,000.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys \$500.00
18. Estimated cost of legal transfer \$500.00
19. Total estimated cost of site \$91,000.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

#3 Site 3 consists also of the Lodge Estate now owned by the War Department, U. S. Government.

S E C R E T

Exhibit 3H, Page 14 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 131
Site #4

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of B5S5; B5S5; G4-OP, G4-CP
5 5 11 11
2. Place (Local name) EAST POINT
Town NAHANT County ESSEX State MASSACHUSETTS
3. Owner: Name J. E. Mifflin Est., A. P. Loring, Jr., Trustee
Address 35 Congress Street, Boston, Mass.
4. Area to be acquired 7,1000 sq. ft. Lot 19, Map 4
5. Site is: Developed? Yes Undeveloped?
6. Site is part of: Farm? Summer Estate? Yes
7. Active shore lot development? Yes Inactive?
8. Does site include buildings? Yes No. & Type
One (1) 2-story colonial type summer home
9. Is site contiguous to public road? Yes (Nahant Road)
10. Is easement required for right of way? No Length
11. Is easement required for cable? Yes Length
12. Assessed value of land \$14,000.00 Buildings \$8,500.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$19,500.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 300.00
18. Estimated cost of legal transfer 200.00
19. Total estimated cost of site 20,000.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

S E C R E T

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 131
Site #5

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of ^{B₁⁴}BC₁₆, ^{B₁⁴}₁₃^{S₁⁴}₁₃
2. Place (Local name) EAST POINT
Town NAHANT County ESSEX State MASSACHUSETTS
3. Owner: Name Thomas G. & Lily B. Brown
Address 43 Circuit Road, Brookline, Mass.
4. Area to be acquired 100' x 200' - Part of Lot 2, Map 4
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? Yes
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? No No. & Type _____
-
9. Is site contiguous to public road? Yes (Pleasant Street)
10. Is easement required for right of way? Yes Length 150'
11. Is easement required for cable? Yes Length 3,000 ft.
(Includes 117,240 sq.ft.)
12. Assessed value of land \$10,300.00 Buildings None
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$8,000.00
14. Estimated cost of right-of-way 500.00
15. Estimated cost of cable easement 100.00
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 250.00
18. Estimated cost of legal transfer 250.00
19. Total estimated cost of site 9,100.00
20. Do you believe condemnation proceedings necessary? Yes
- REMARKS: (Refer to numbered items)
- #4 - Only part of Lot 2 to be acquired. Building on lot not to be acquired.

S E C R E T

Exhibit 3H, Page 16 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 132
Site #1

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of $B_{11}^6 S_{11}^6 \cdot B_{15}^4 S_{15}^4; B_{16}^5 S_{16}^5$.
2. Place (Local name) MARBLEHEAD NECK
Town MARBLEHEAD County ESSEX State MASSACHUSETTS
3. Owner: Name R. V. MacDonald
Address Salem, Mass.
4. Area to be acquired 9,050 sq. ft.
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? Yes
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type _____
One (1) 2-story house
9. Is site contiguous to public road? Yes (Ocean Avenue)
10. Is easement required for right of way? No Length _____
11. Is easement required for cable? Yes Length 1,000'
12. Assessed value of land \$3,000.00 Buildings \$5,500.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$15,000.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement 100.00
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 250.00
18. Estimated cost of legal transfer 200.00
19. Total estimated cost of site 15,550.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

S E C R E T

Exhibit 3H, Page 1 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 132
Site #3

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of $B^5 S^5_{13 13}; B^6 S^6_{12 12}; O^2-OP_3$
2. Place (Local name) MARBLEHEAD NECK
Town MARBLEHEAD County ESSEX State MASSACHUSETTS
3. Owner: Name Ransom B. Fuller - First National Bank, Trustee
Address Boston, Mass.
4. Area to be acquired 66,850 sq. ft.
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? _____
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type 1 Barn

9. Is site contiguous to public road? Yes (Ocean Avenue)
10. Is easement required for right of way? No Length _____
11. Is easement required for cable? No (Existing Length for Site #2) _____
12. Assessed value of land \$22,500.00 Buildings \$1,000.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$22,500.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement None
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 300.00
18. Estimated cost of legal transfer 200.00
19. Total estimated cost of site 23,000.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

S E C R E T

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 133A

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of AAIS-OP #14; B⁶₁₆S⁶₁₆; B⁷₁₂S⁷₁₂; B⁵₁₅S⁵₁₅
2. Place (Local name) GALES POINT
Town MANCHESTER County ESSEX State MASSACHUSETTS
3. Owner: Name Mary Sumner Elliott
Address Essex Falls, N. J.
4. Area to be acquired 100' x 150'
5. Site is: Developed? Yes Undeveloped?
6. Site is part of: Farm? Summer Estate? Yes
7. Active shore lot development? Yes Inactive?
8. Does site include buildings? No No. & Type
9. Is site contiguous to public road? Yes
10. Is easement required for right of way? No Length
11. Is easement required for cable? Yes Length 400'
12. Assessed value of land \$13,000 Buildings None
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$7,500.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement 200.00
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 500.00
18. Estimated cost of legal transfer 300.00
19. Total estimated cost of site \$8,500.00
20. Do you believe condemnation proceedings necessary? Yes

REMARKS: (Refer to numbered items)

#12 - Assessment for entire tract consisting of two acres.

S E C R E T

Exhibit 3H, Page 19 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 134A

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of **AAIS-OP #16; B⁷S⁷_{16 16}; B⁸S⁸_{12 12}**
2. Place (Local name) **EASTERN POINT**
Town **GLOUCESTER** County **ESSEX** State **MASSACHUSETTS**
3. Owner: Name **Mrs. S. A. Raymond**
Address **3826 Euclid Avenue, Cleveland Ohio**
4. Area to be acquired **100' x 200'**
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? Yes
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? No No. & Type _____
9. Is site contiguous to public road? No
10. Is easement required for right of way? Yes Length **800 ft.**
11. Is easement required for cable? Yes Length **1,000 ft.**
12. Assessed value of land **\$57,400.00** Buildings **None**
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings **\$3,750.00**
14. Estimated cost of right-of-way **250.00**
15. Estimated cost of cable easement **100.00**
16. Estimated cost removal of utilities **None**
17. Estimated cost of taking surveys **300.00**
18. Estimated cost of legal transfer **300.00**
19. Total estimated cost of site **\$4,700.00**
20. Do you believe condemnation proceedings necessary? Yes

REMARKS: (Refer to numbered items)

#12 - Assessment on entire tract of 75 acres.

S E C R E T

Exhibit 3H, Page 20 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 135

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of AAIS-OP #17; B₁₂⁹S₁₂⁹; B₁₆⁸S₁₆⁸; C₃³ OP
2. Place (Local name) EMERSON POINT
Town ROCKPORT County ESSEX State MASSACHUSETTS
3. Owner: Name Thomas Worcester
Address Waltham, Mass.
4. Area to be acquired 26,135 sq. ft.
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? Yes
7. Active shore lot development? Yes Inactive? _____
8. Does site include buildings? Yes No. & Type _____
1 Brick house with tower
9. Is site contiguous to public road? Yes (Penryn Way)
10. Is easement required for right of way? No Length _____
11. Is easement required for cable? Yes Length 1,000 ft.
12. Assessed value of land \$1,500.00 Buildings \$2,800.00
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$7,500.00
14. Estimated cost of right-of-way None
15. Estimated cost of cable easement 100.00
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 400.00
18. Estimated cost of legal transfer 300.00
19. Total estimated cost of site \$8,300.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

S E C R E T

Exhibit 3H, Page 21 of 23 pages

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 136

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of AAIS-OP #18; B⁹S⁹_{16 16}; C⁴₃-OP, B¹S¹_{2 2} (Portsmouth)
2. Place (Local name) HALIBUT POINT
Town ROCKPORT County ESSEX State MASSACHUSETTS
3. Owner: Name Courtney C. Wright, Trustee, Rockport Granite Company,
Address 27 Sears Avenue, Melrose Highlands, Mass.
4. Area to be acquired 2 acres (approximately)
5. Site is: Developed? No Undeveloped?
6. Site is part of: Farm? No Summer Estate? No
7. Active shore lot development? No Inactive?
8. Does site include buildings? No No. & Type
9. Is site contiguous to public road? No
10. Is easement required for right of way? Yes Length 800 ft.
11. Is easement required for cable? Yes Length 1,000 ft.
12. Assessed value of land \$7,000.00 Buildings None
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$4,000.00
14. Estimated cost of right-of-way 100.00
15. Estimated cost of cable easement 100.00
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 500.00
18. Estimated cost of legal transfer 400.00
19. Total estimated cost of site \$5,100.00
20. Do you believe condemnation proceedings necessary? No

REMARKS: (Refer to numbered items)

#12 - Assessment based on entire tract of 65 acres.

S E C R E T

S E C R E T

Form #35, Annex H

H. D. of Boston

Location No. 137

PRELIMINARY DATA FOR PROPOSED LAND ACQUIREMENT

1. For installation of ^(Portsmouth) AAIS-OP #1; B^{2S2}₂₂; B^{10S10}₁₆₁₆
Charged to Portsmouth
2. Place (Local name) CASTLE HILL
Town IPSWICH County ESSEX State MASSACHUSETTS
3. Owner: Name Florence H. Crane
Address 836 Michigan Avenue, Chicago, Illinois
4. Area to be acquired 100' x 150'
5. Site is: Developed? Yes Undeveloped? _____
6. Site is part of: Farm? _____ Summer Estate? Yes
7. Active shore lot development? No Inactive? _____
8. Does site include buildings? No No. & Type _____
-
9. Is site contiguous to public road? Private road within estate grounds
10. Is easement required for right of way? Yes Length 1/2 mile
11. Is easement required for cable? Yes Length 600 ft.
12. Assessed value of land \$304,000.00 Buildings None
If no land, or right-of-way is required, state, "none required" in appropriate space below.
13. Estimated purchase cost of land and buildings \$7,500.00
14. Estimated cost of right-of-way Included in #13
15. Estimated cost of cable easement 100.00
16. Estimated cost removal of utilities None
17. Estimated cost of taking surveys 250.00
18. Estimated cost of legal transfer 250.00
19. Total estimated cost of site \$8,100.00
20. Do you believe condemnation proceedings necessary? Yes

REMARKS: (Refer to numbered items)

#12 - Assessment based on entire estate of 1400 acres.

S E C R E T

Exhibit 3H, Page 23 of 23 pages

ANNEX I

INFORMATION ON ARTILLERY AND FIRE CONTROL INSTALLATION

S E C R E T

HARBOR DEFENSES OF BOSTON

EXHIBITS - ANNEX I

EXHIBITS

CONTENTS

- | | |
|-----|--|
| 1-I | Map of Artillery Installations by Location (Form #36) |
| 2-I | Information for Design and Construction of Installations
by Location (Form #37) |
| 3-I | Fire Control Installations by Location (Form #38) |

S E C R E T

S E C R E T

Form #36

MAP OF ARTILLERY INSTALLATIONS

Location 110

Place (Local Name) MANOMET

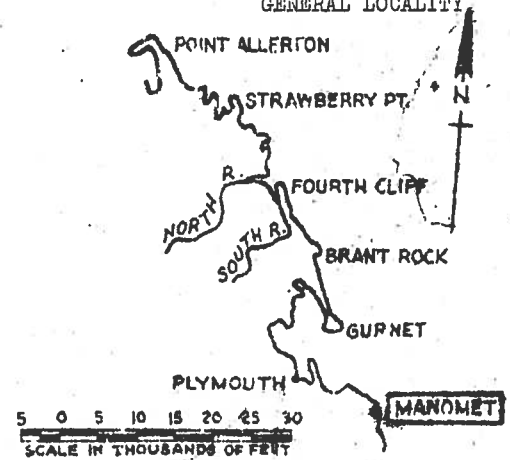
TOWN Plymouth COUNTY Plymouth STATE Massachusetts

INSERT MAP
GENERAL LOCALITY

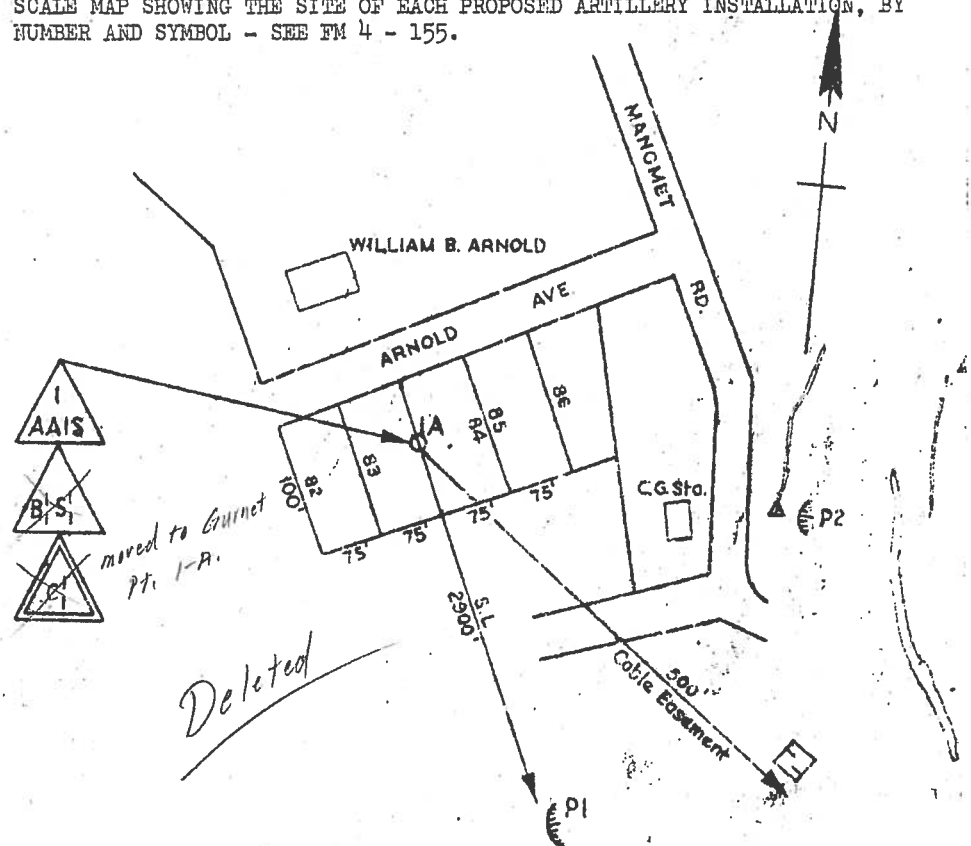
Site No. Installation

1

A



SCALE MAP SHOWING THE SITE OF EACH PROPOSED ARTILLERY INSTALLATION, BY NUMBER AND SYMBOL - SEE FM 4 - 155.



S E C R E T

Exhibit 1-I, Page 1 of 27 Pages.

S E C R E T

Form #36.

H. D. of Boston

MAP OF ARTILLERY INSTALLATION

Location No. 111

Place (local name) Gurnet Point

Town Plymouth County Plymouth State Massachusetts

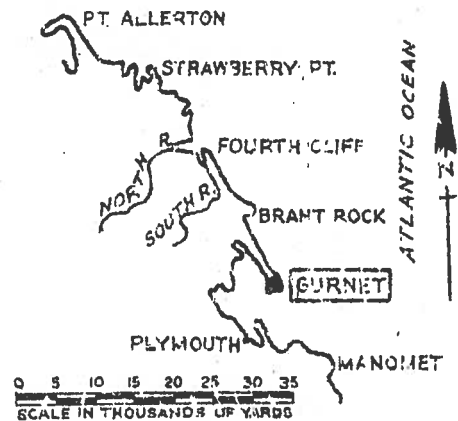
INSERT MAP

Site No. Installation

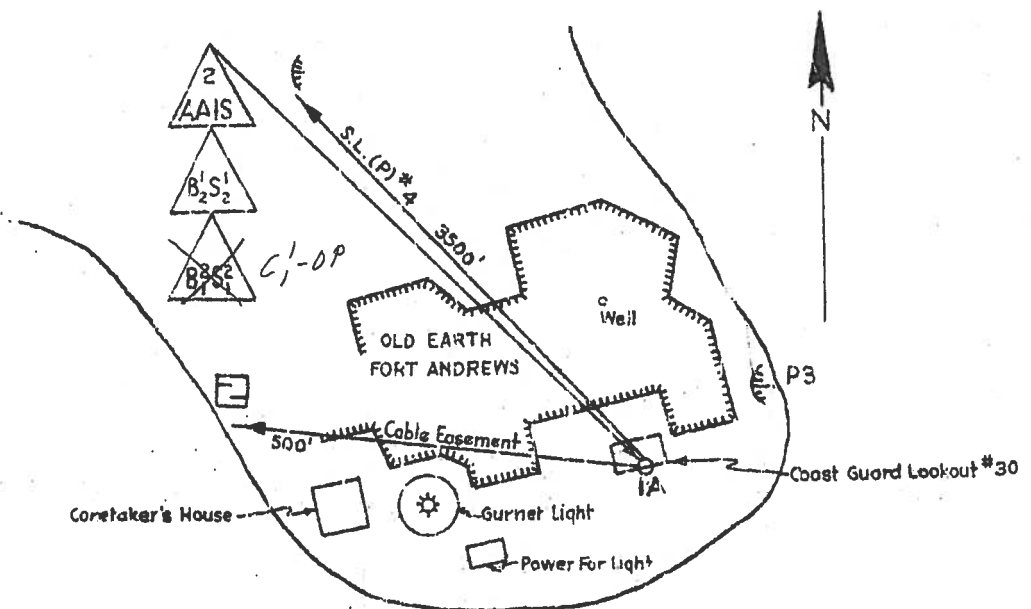
GENERAL LOCALITY

1

A



SCALE MAP SHOWING THE SITE OF EACH PROPOSED ARTILLERY INSTALLATION BY NUMBER AND SYMBOL - SEE FM 4 - 155.



S E C R E T

Exhibit 1-I, Page 2 of 27 Pages

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 112

Place BRANT ROCK

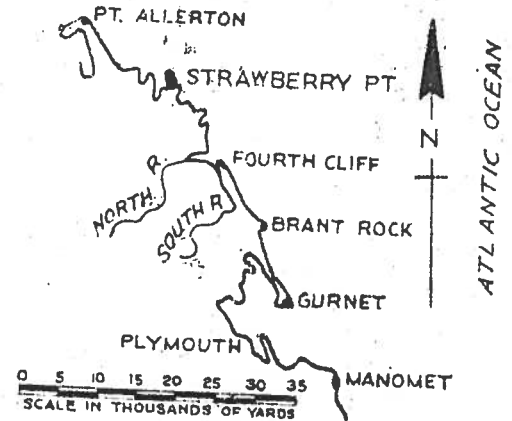
Town Marshfield County Plymouth State Massachusetts

Site No. Installation

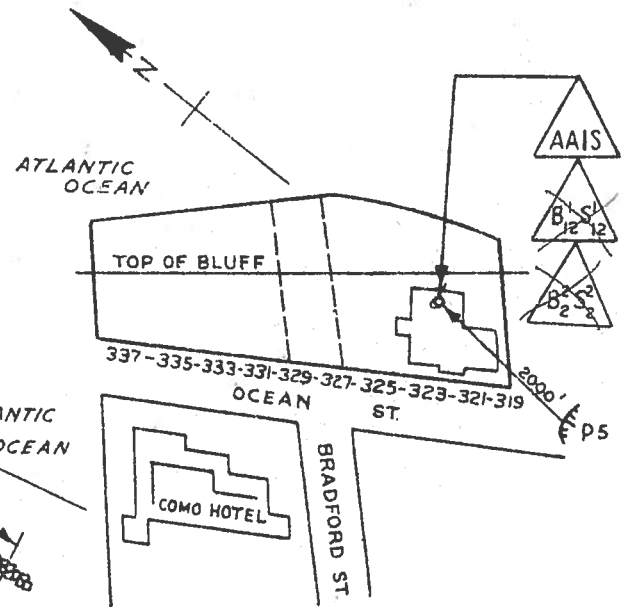
MAP OF
GENERAL LOCALITY

1 . . . A .
2 . . . A .

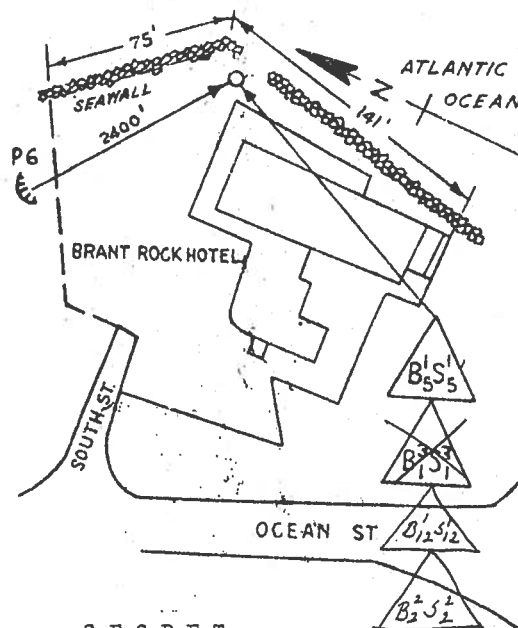
SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



SITE 1A



SITE 2A



S E C R E T

S E C R E T

Form #36.

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

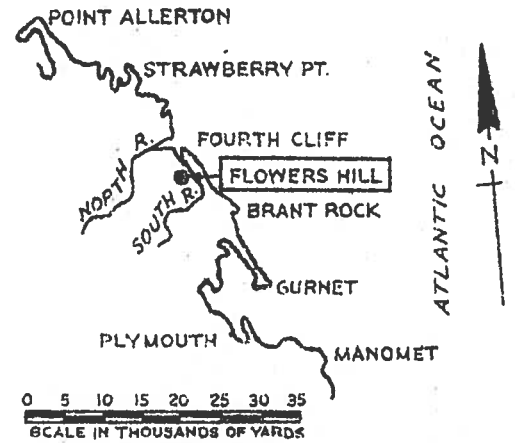
Location 113

Place (Local Name) Flowers Hill

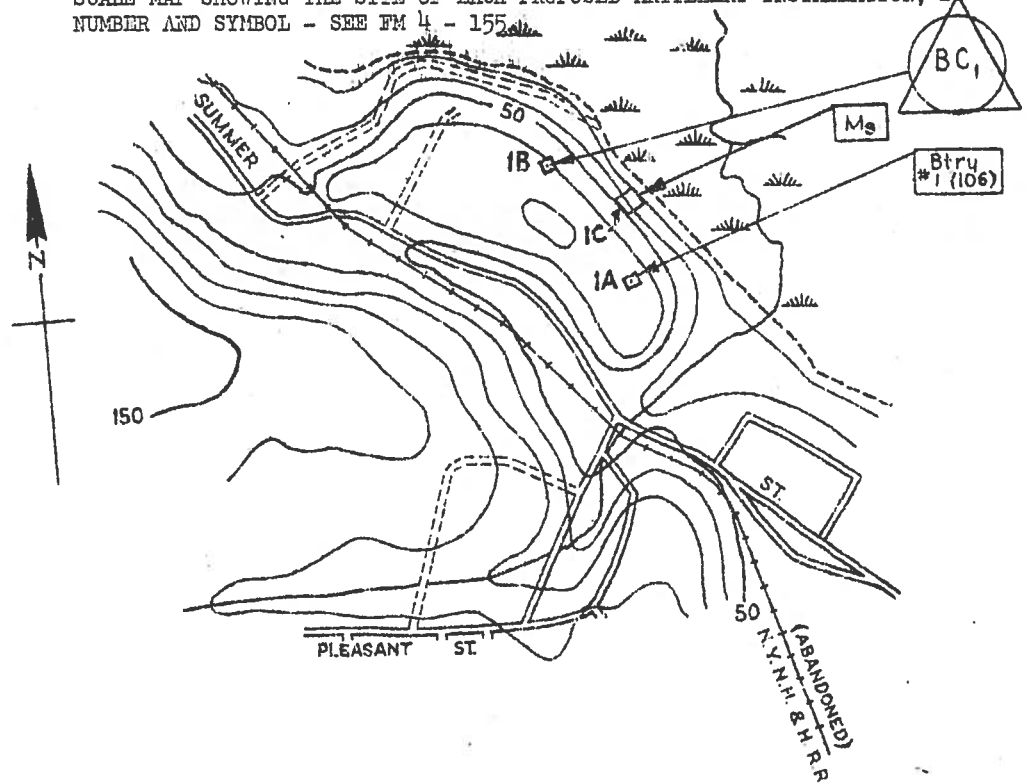
TOWN Marshfield COUNTY Plymouth STATE Massachusetts

INSERT MAP
GENERAL LOCALITY

Site No.	Installation
1	A
1	B
1	C



SCALE MAP SHOWING THE SITE OF EACH PROPOSED ARTILLERY INSTALLATION, BY
NUMBER AND SYMBOL - SEE FM 4 - 155



S E C R E T

S E C R E T

Form #36.

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

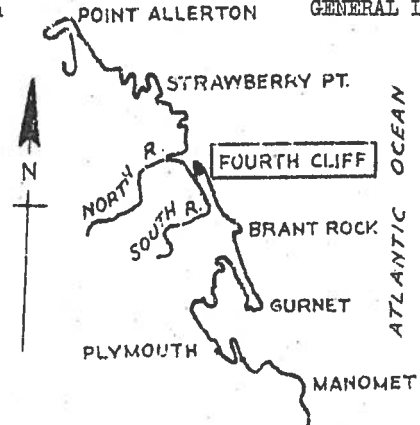
Location 114

Place (Local Name) Fourth Cliff

TOWN Scituate COUNTY Plymouth STATE Massachusetts

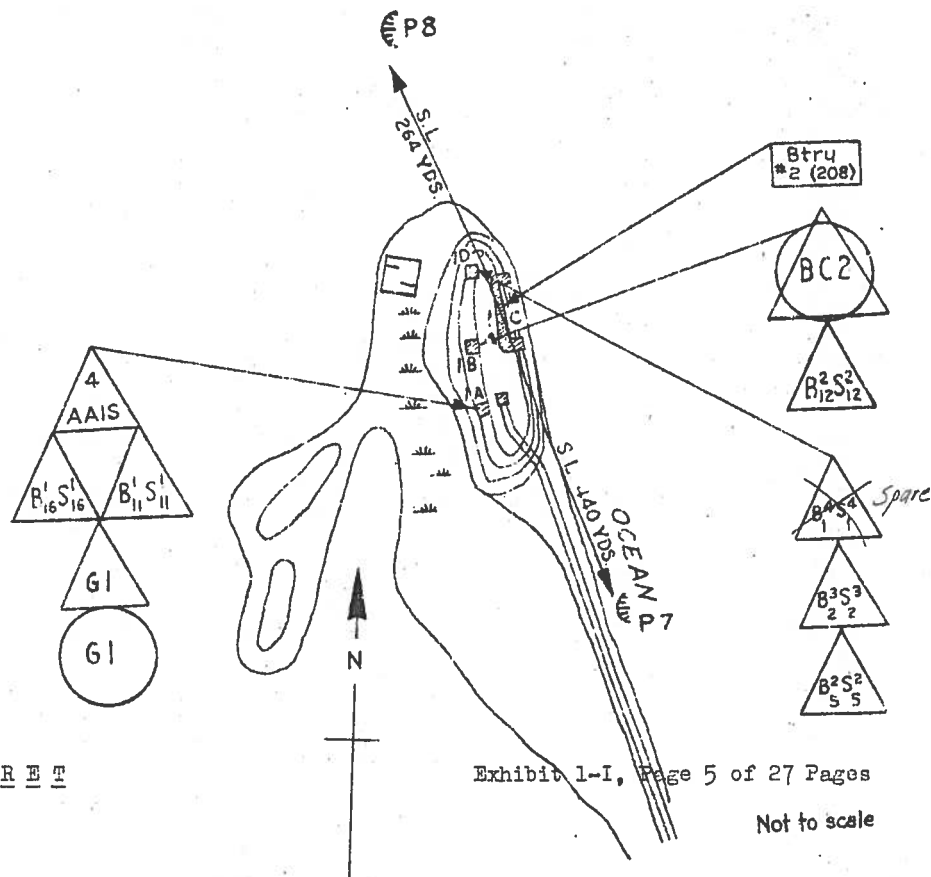
Site No. Installation POINT ALLERTON INSERT MAP GENERAL LOCALITY

1 A
1 B
1 C
1 D



0 5 10 15 20 25 30 35
SCALE IN THOUSANDS OF YARDS

SCALE MAP SHOWING THE SITE OF EACH PROPOSED ARTILLERY INSTALLATION, BY NUMBER AND SYMBOL - SEE FM 4 - 155.



S E C R E T

Exhibit 1-I, Page 5 of 27 Pages

Not to scale

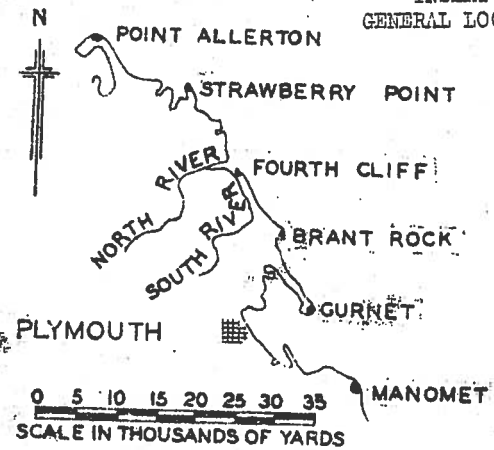
MAP OF ARTILLERY INSTALLATIONS

Location No. 115

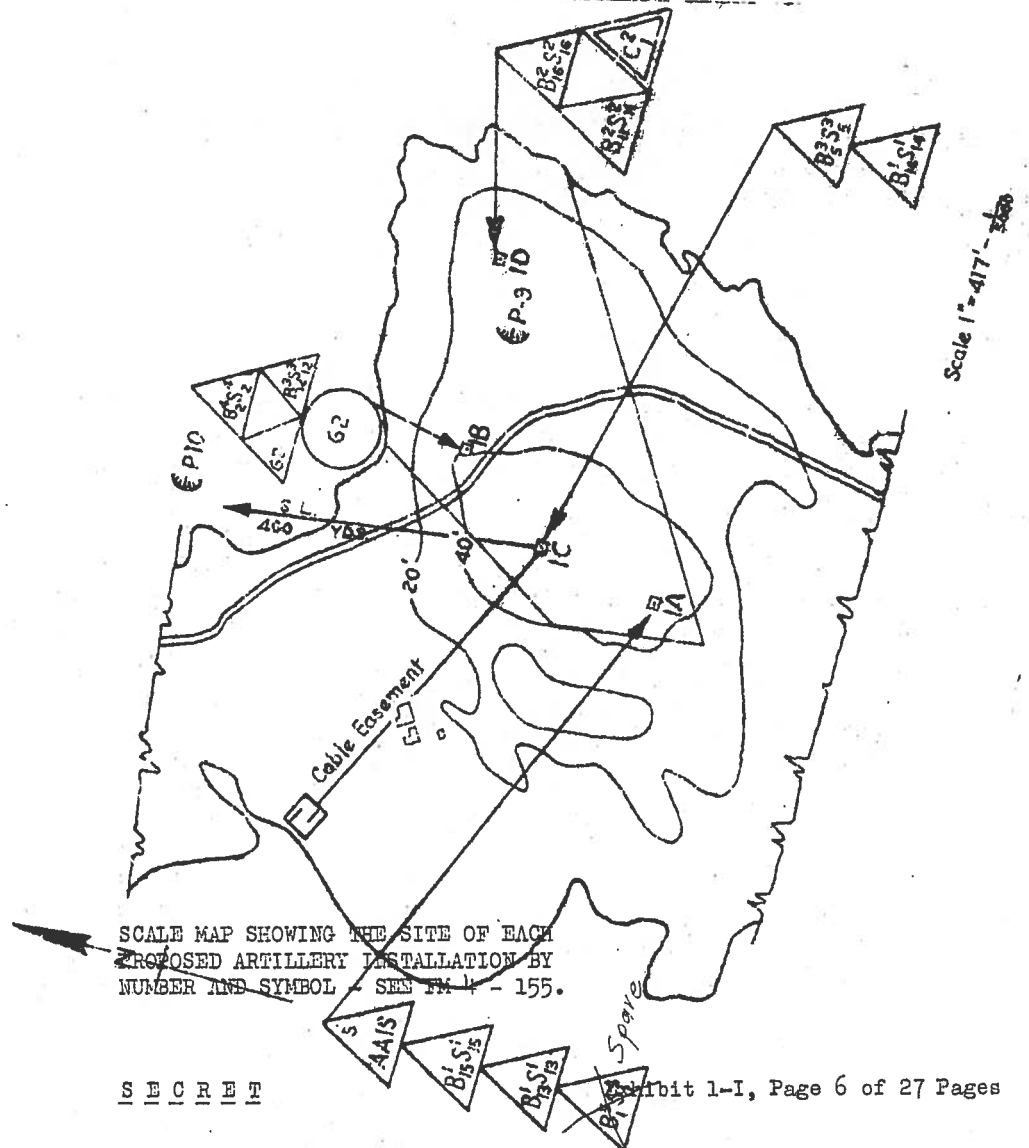
Place (Local Name) Strawberry Point

TOWN	Scituate	COUNTY	Plymouth	STATE	Massachusetts
					INSERT MAP
					GENERAL LOCATION

Site No.	Installation
1	A
1	B
1	C
1	D



ATLANTIC OCEAN



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Form #36.

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location 116

Place (Local Name) Strawberry Hill

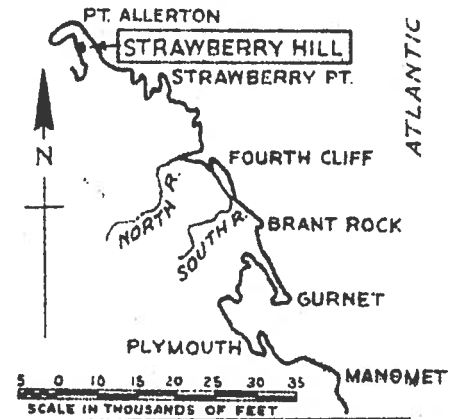
TOWN Hull COUNTY Plymouth STATE Massachusetts

INSERT MAP
GENERAL LOCALITY

Site No. Installation

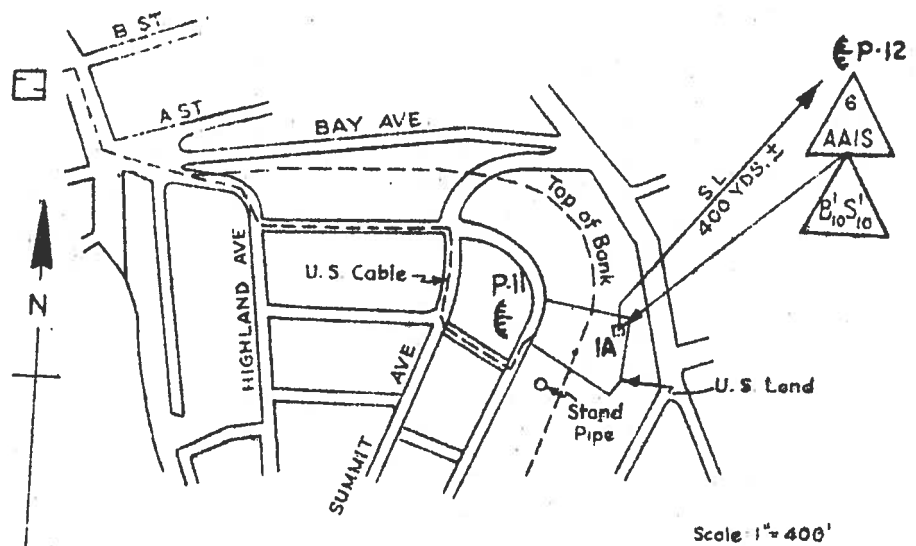
1

A



SCALE MAP SHOWING THE SITE OF EACH PROPOSED ARTILLERY INSTALLATION, BY NUMBER AND SYMBOL - SEE FM 4 - 155.

STRAWBERRY HILL



SECRET

Exhibit 1-I, Page 7 of 27 Pages

S E C R E T

Form #36, Annex I

H. D. of Boston

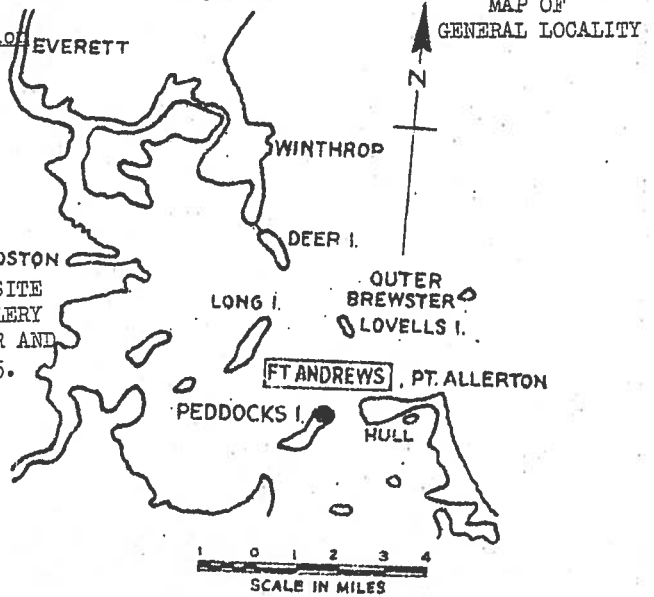
MAP OF ARTILLERY INSTALLATIONS

Location No. 117

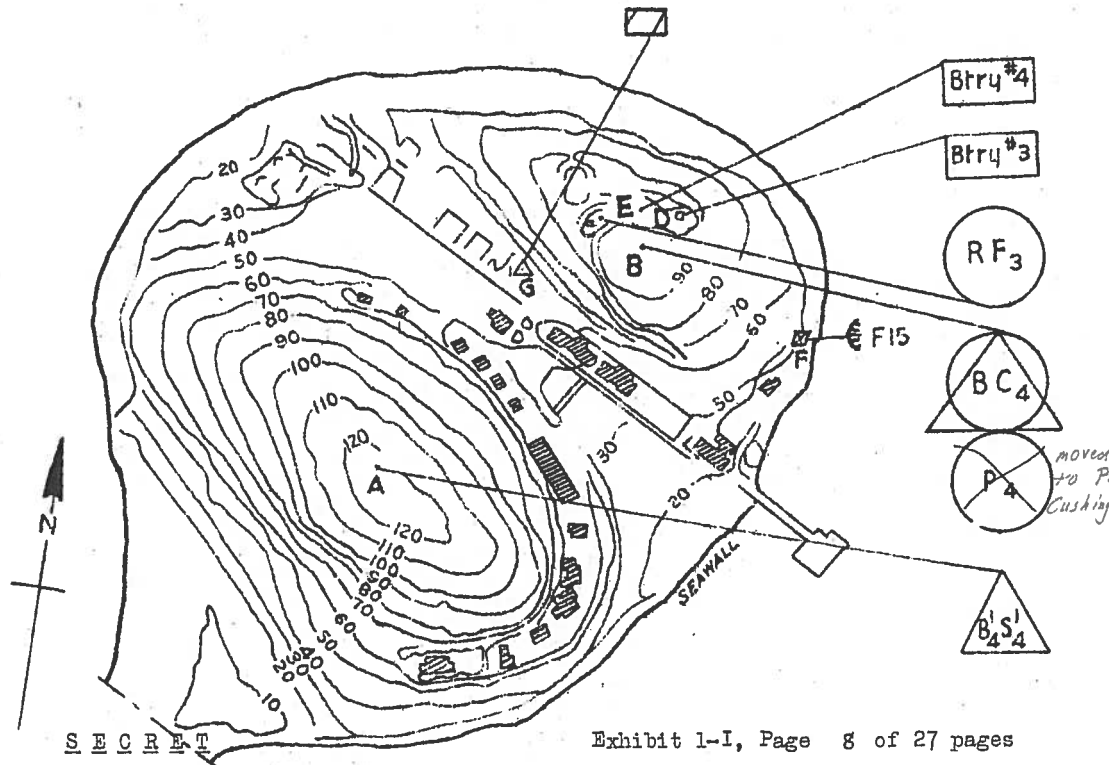
Place FORT ANDREWS

Town Peddock I. County Plymouth State Massachusetts

Site No.	Installation
1	A
1	B
1	C
1	D
1	E
1	F
1	G



SCALE MAP SHOWING THE SITE OF EACH PROPOSED ARTILLERY INSTALLATION, BY NUMBER AND SYMBOL - SEE FN 4 - 155.



S E C R E T

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 118

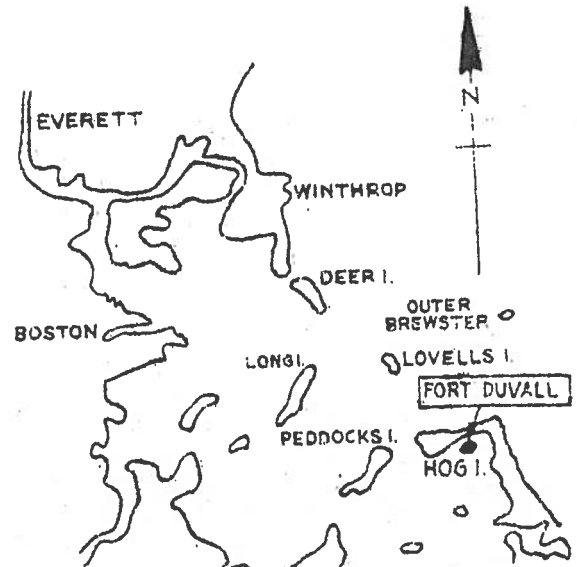
Place FORT DUVALL

Town Hog Island County Plymouth State Massachusetts

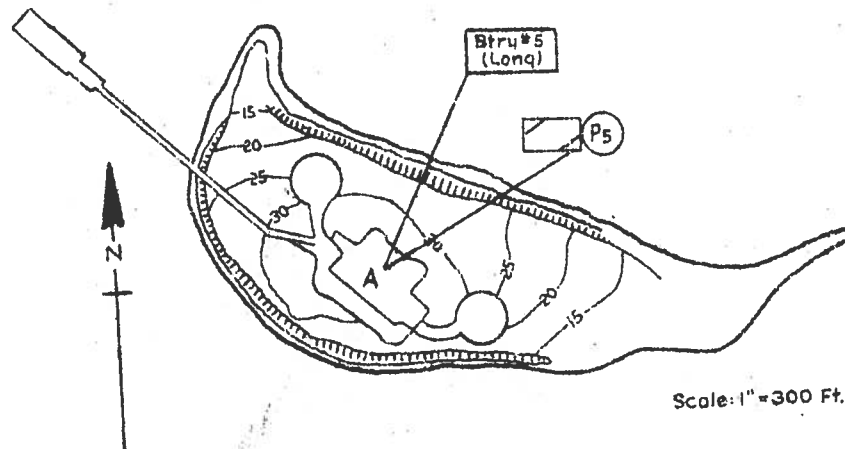
Site No. 1 Installation A

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155:



1 0 1 2 3 4
SCALE IN MILES



S E C R E T

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 119

Place FORT REVERE

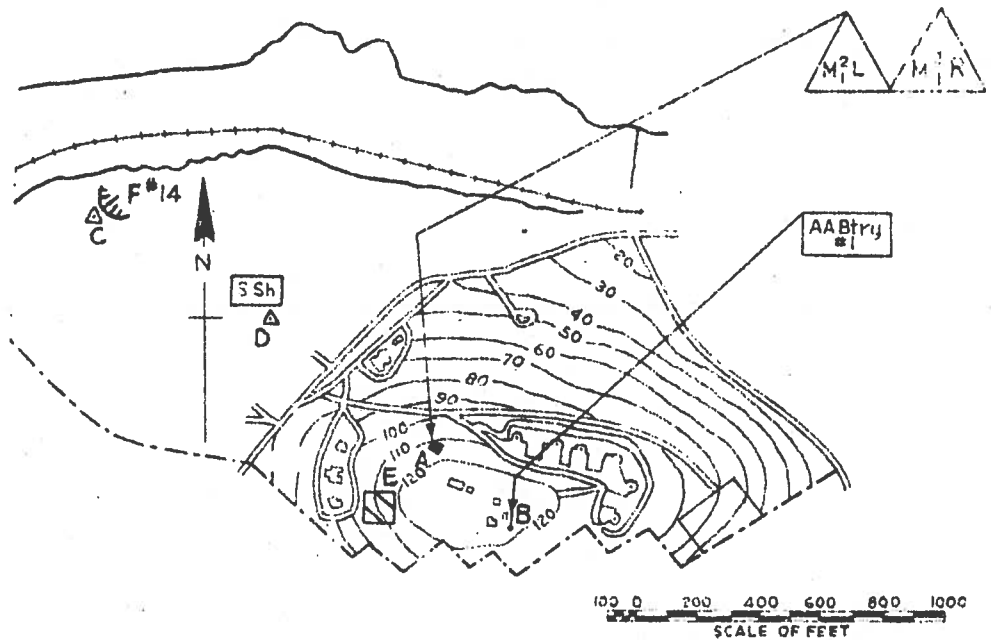
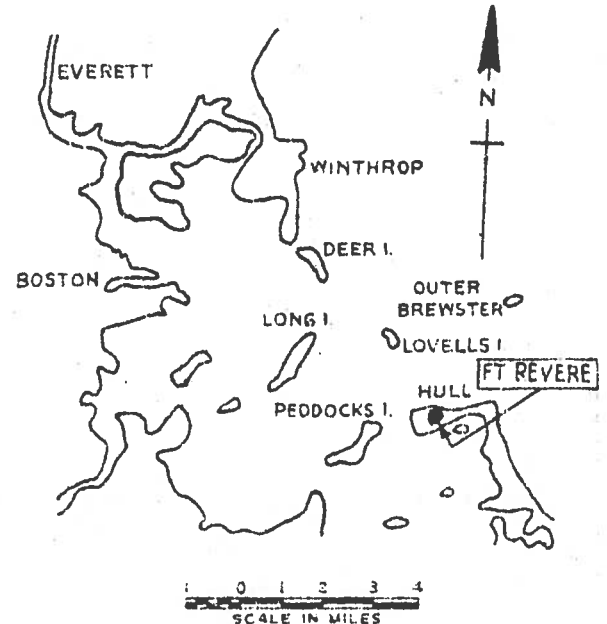
Town Hull County Plymouth State Massachusetts

Site No. Installation

1	A
1	B
1	C
1	D
1	E

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



S E C R E T

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 120

Place POINT ALLERTON

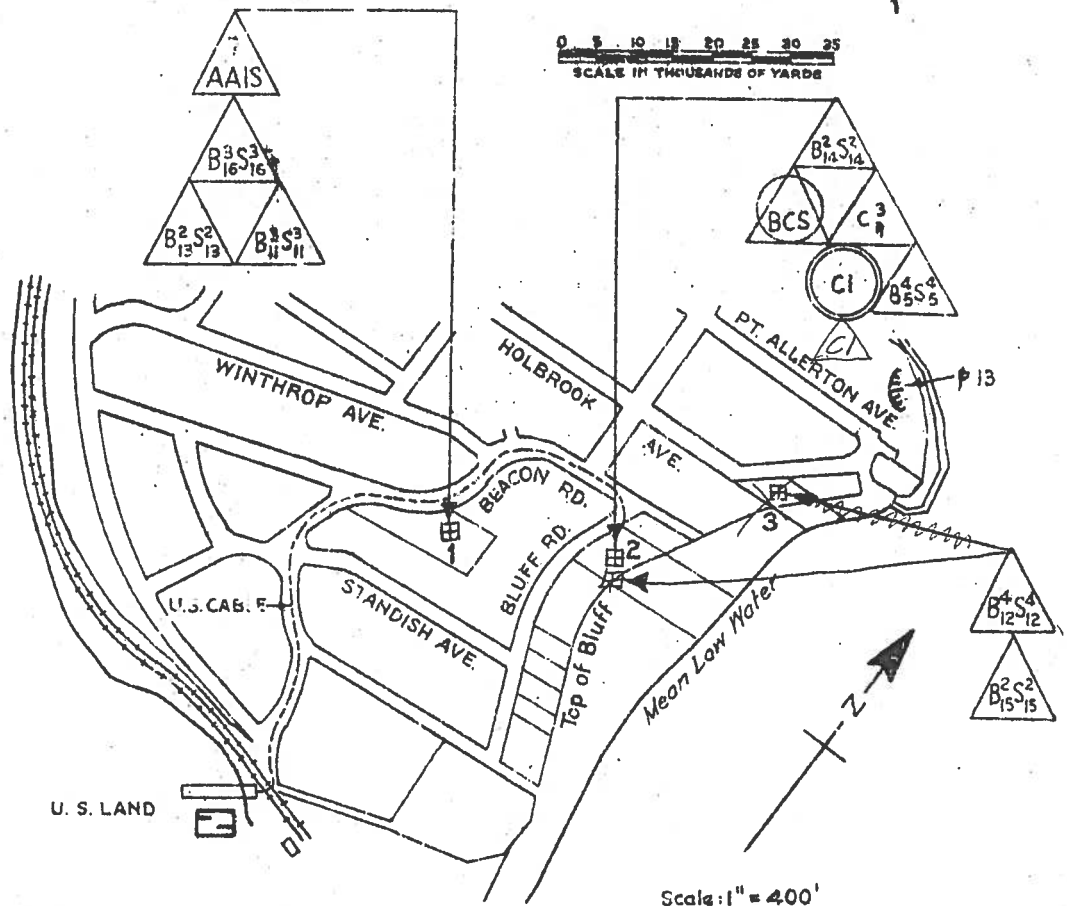
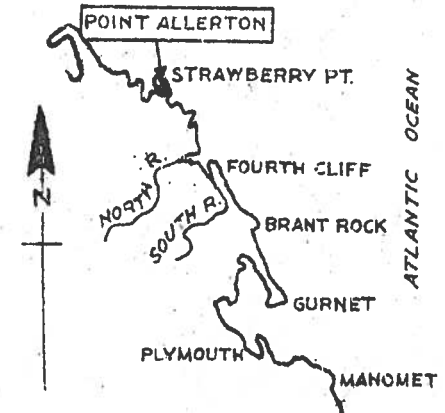
Town Hull County Plymouth State Massachusetts

Site No. Installation

MAP OF
GENERAL LOCALITY

1	A
2	B
3	C

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



S E C R E T

SECRET

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 121

Place FORT WARREN

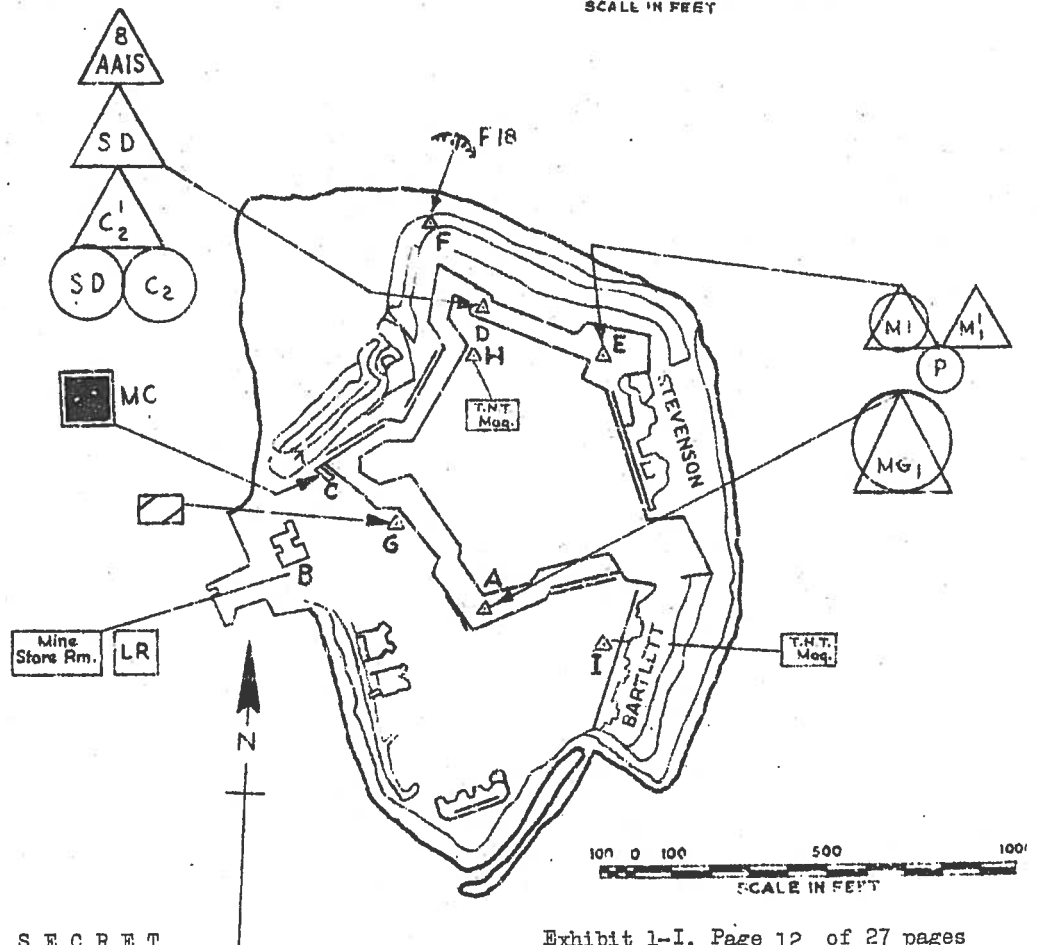
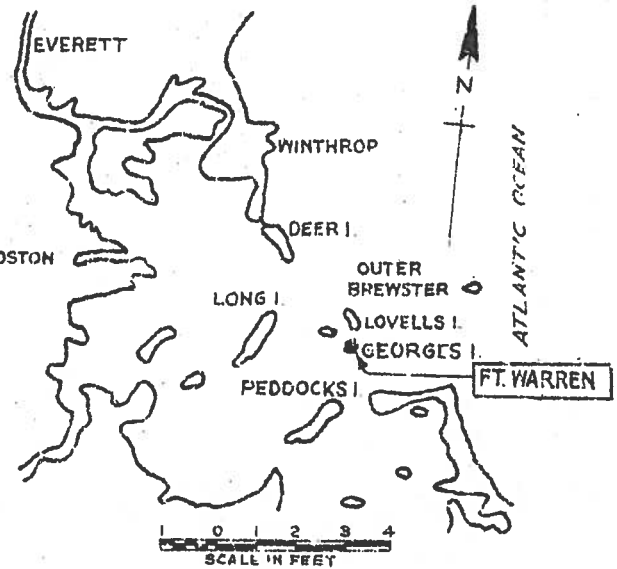
Town Georges I., County Suffolk State Massachusetts

Site No. Installation

GENERAL LOCALITY

1 A to I, Incl.

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



SECRET

Exhibit 1-I, Page 12 of 27 pages

SECRET

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 122

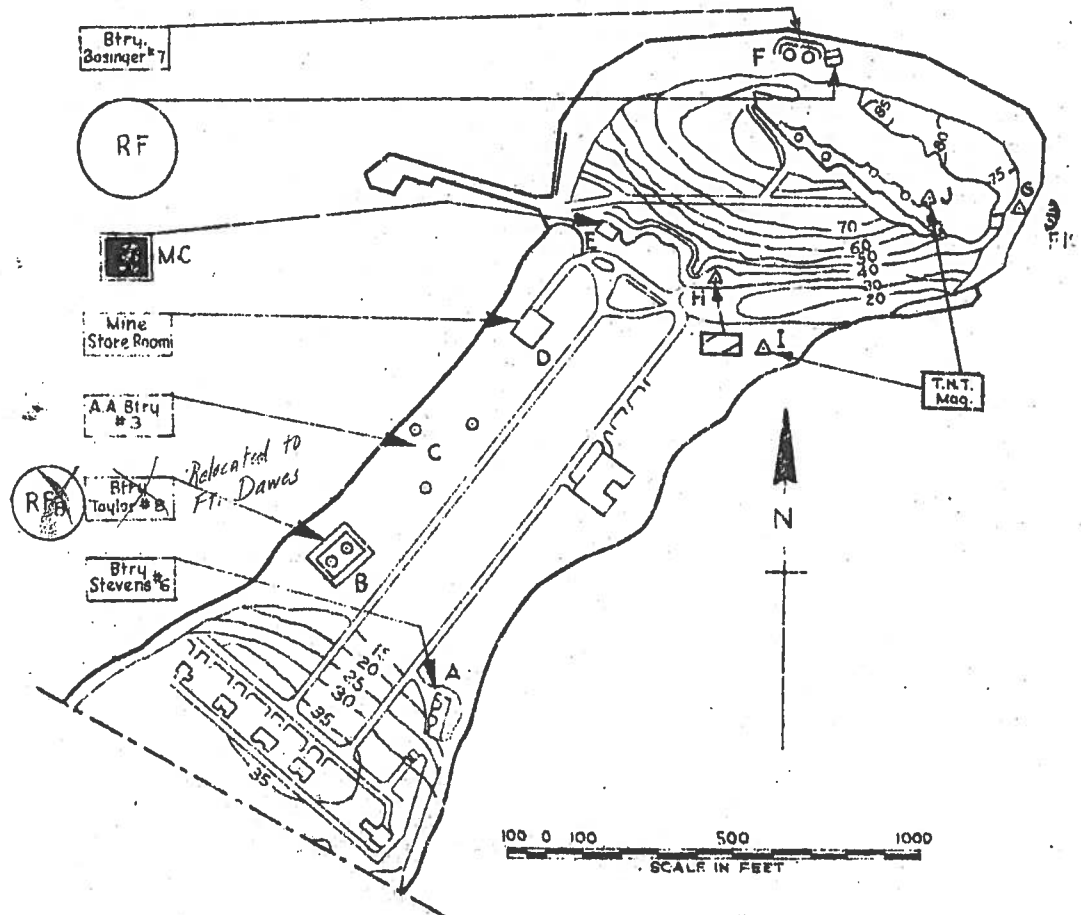
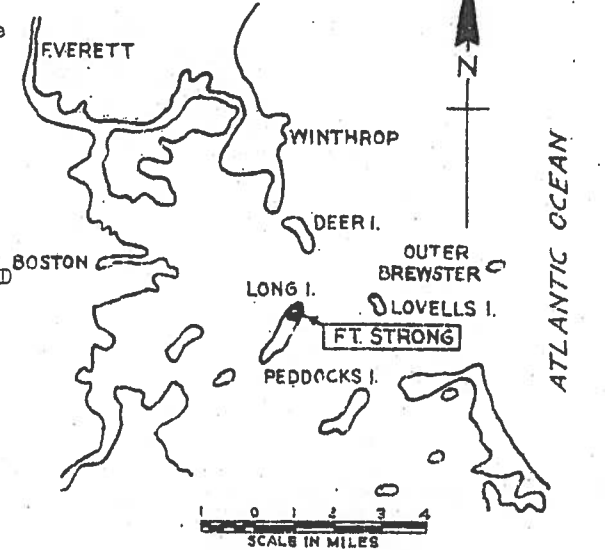
Place FORT STRONG

Town Long I. County Suffolk State Massachusetts

Site No. Installation

1 A to J, inclusive

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



SECRET

SECRET

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 123

Place FORT STANDISH

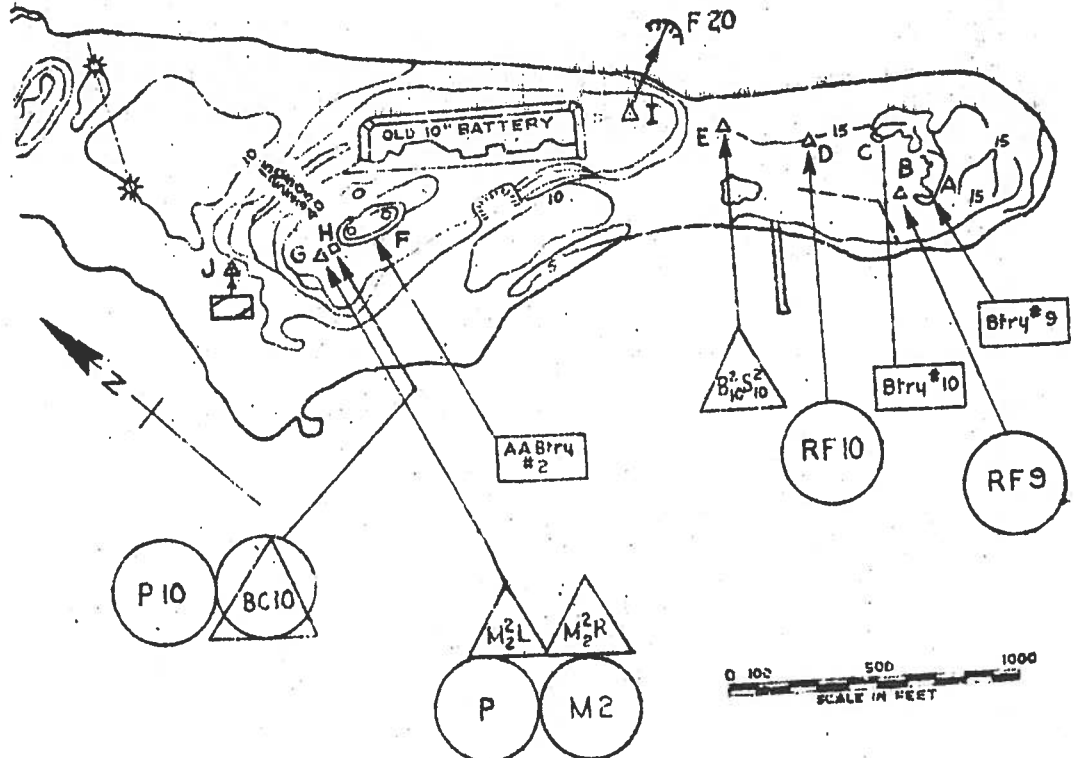
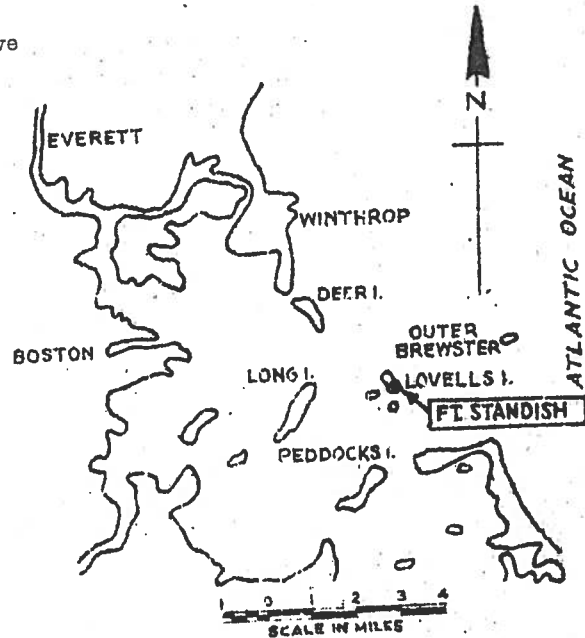
Town Lowells I., County Suffolk State Massachusetts

Site No. Installation

1 A to J, inclusive

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



SECRET

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 126

Place OUTER BREWSTER

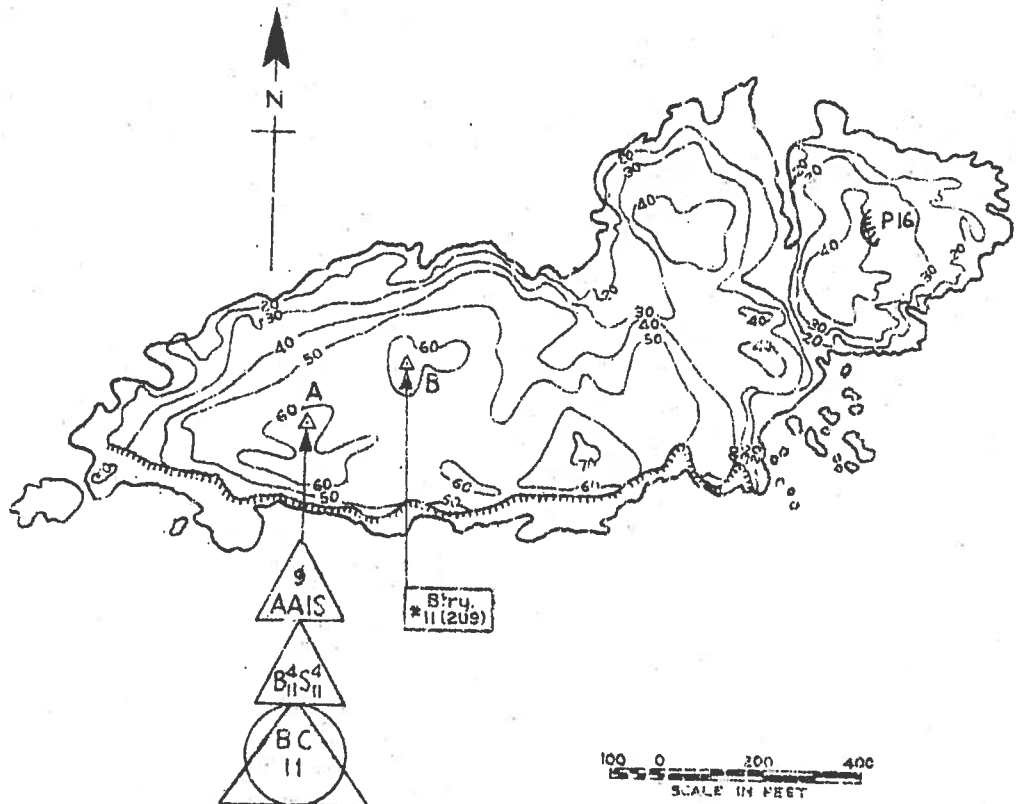
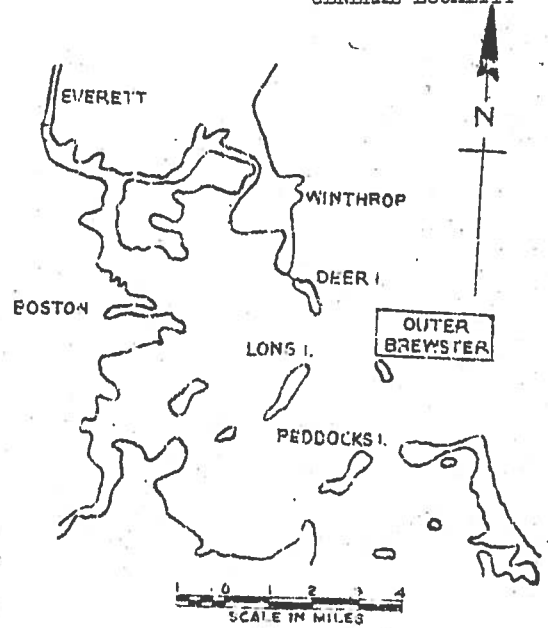
Town Outer Brewster I. County Suffolk State Massachusetts

Site No. Installation

1 A
1 B

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



S E C R E T

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 127

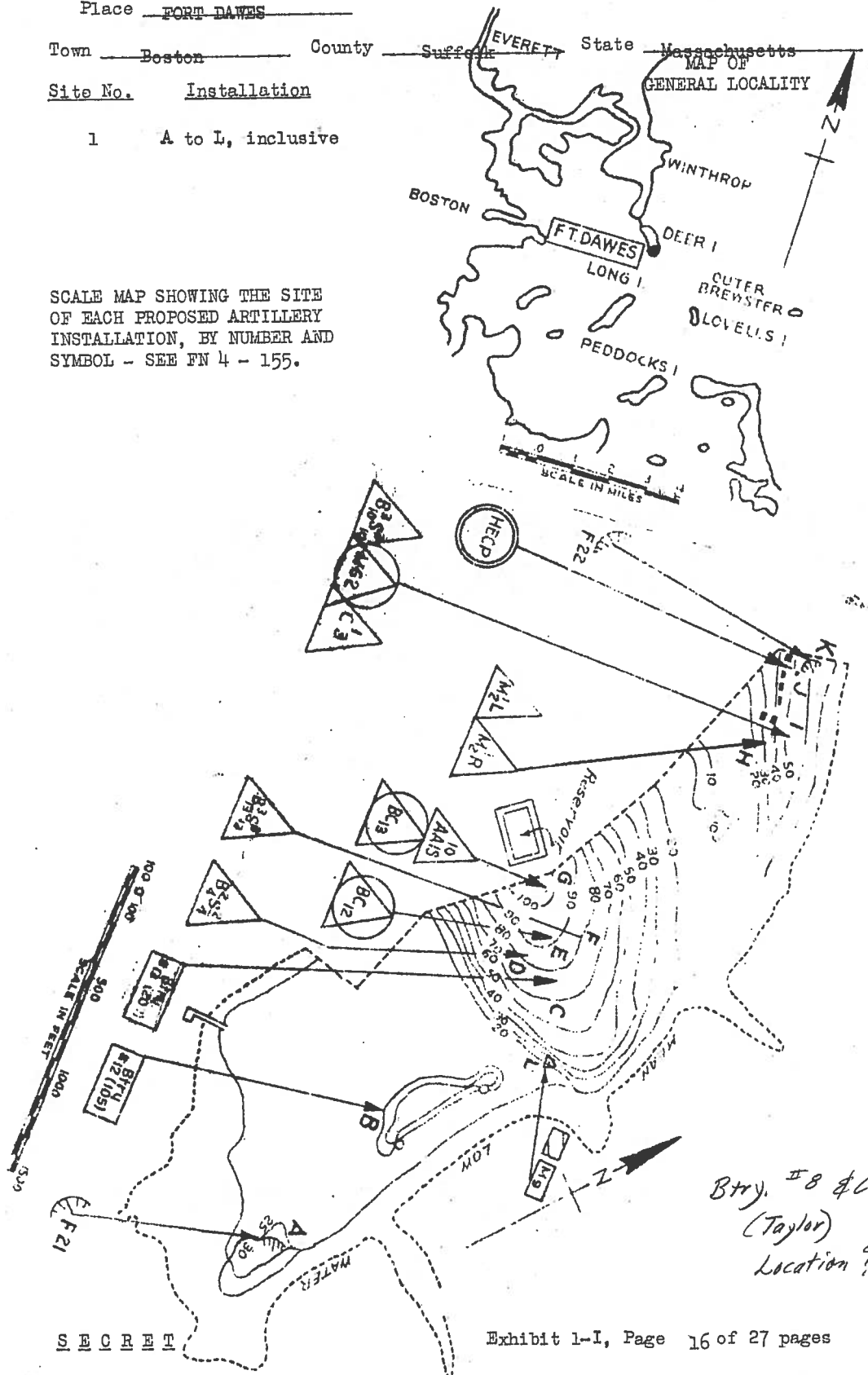
Place FORT DAWES

Town Boston County Suffolk State Massachusetts

<u>Site No.</u>	<u>Installation</u>
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
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93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

1 A to L, inclusive

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



S E C R E T

Exhibit 1-I, Page 16 of 27 pages

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 128

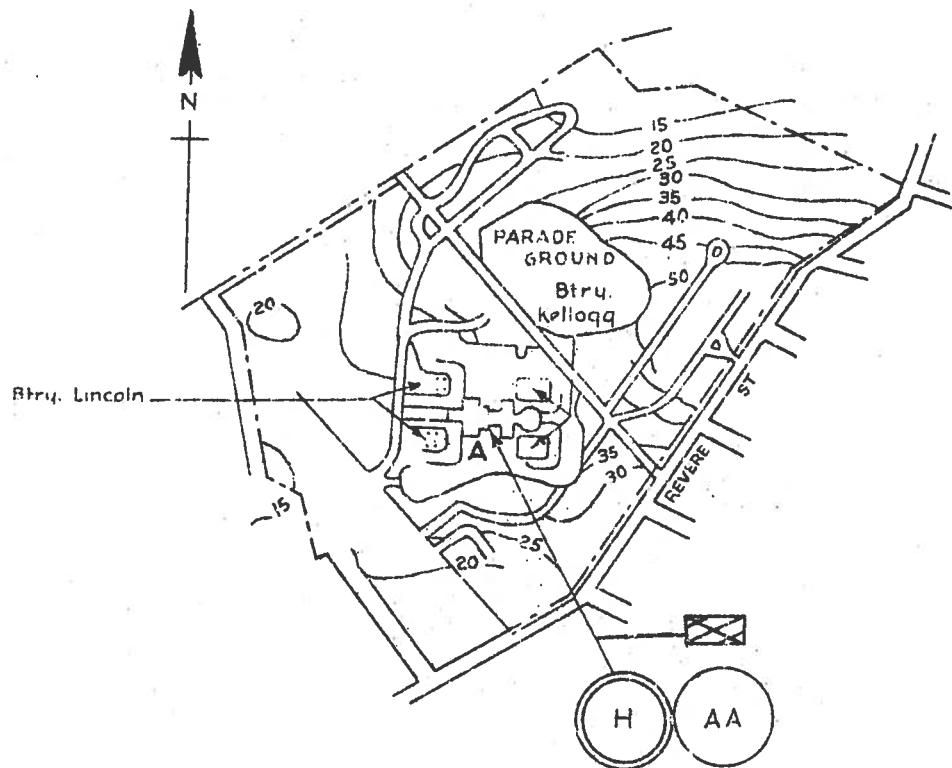
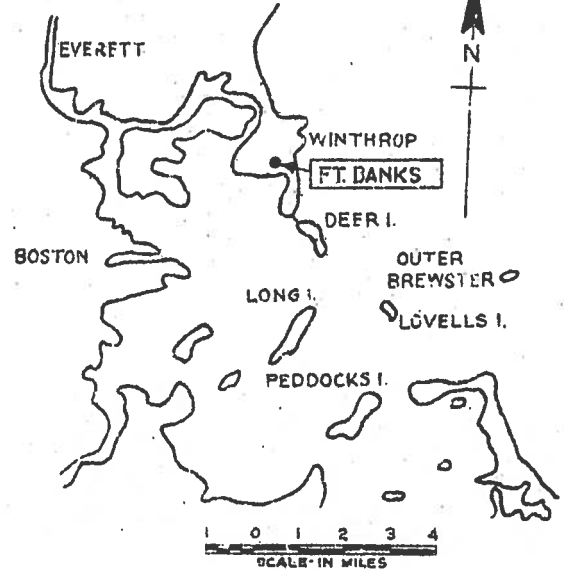
Place FORT BANKS

Town Winthrop County Suffolk State Massachusetts

Site No. 1 Installation A

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



S E C R E T

Exhibit 1-I, Page 17 of 27 pages

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 129

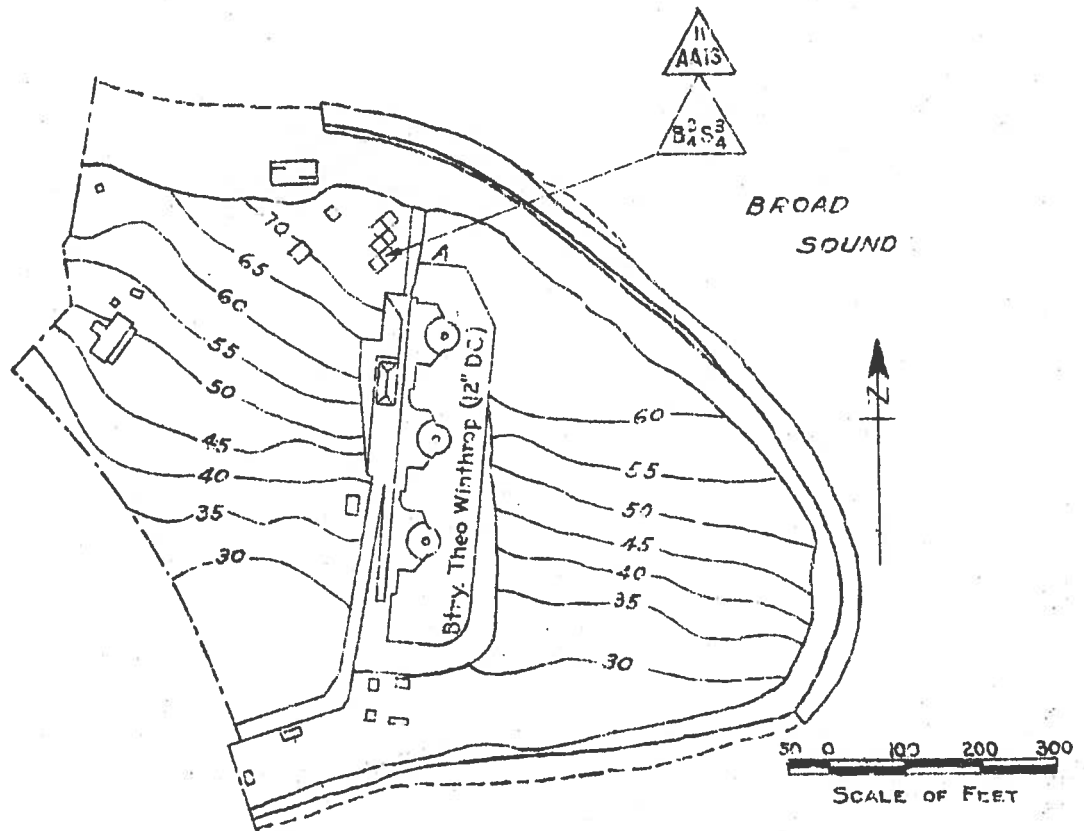
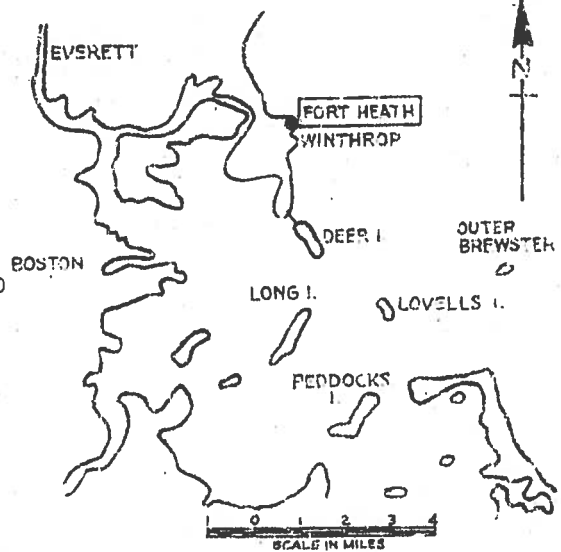
Place FORT HEATH

Town Winthrop County Suffolk State Massachusetts

Site No. 1 Installation A

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



S E C R E T

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 130

Place FORT RUCKMAN

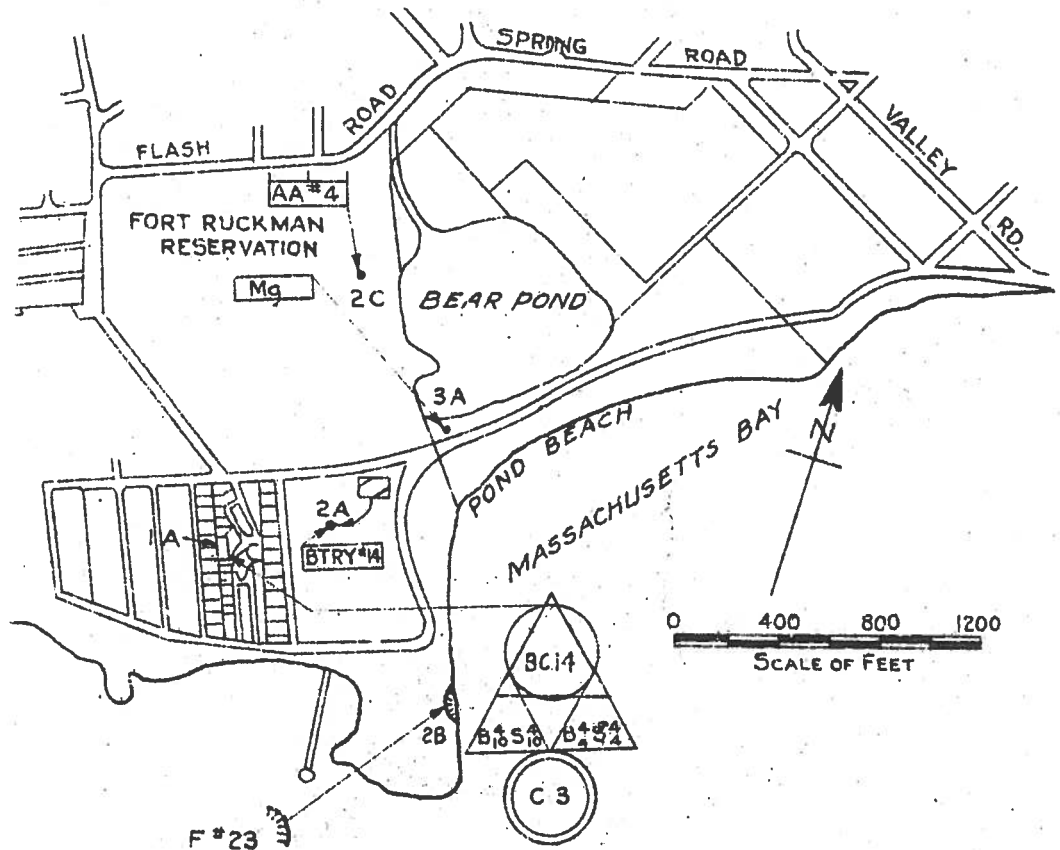
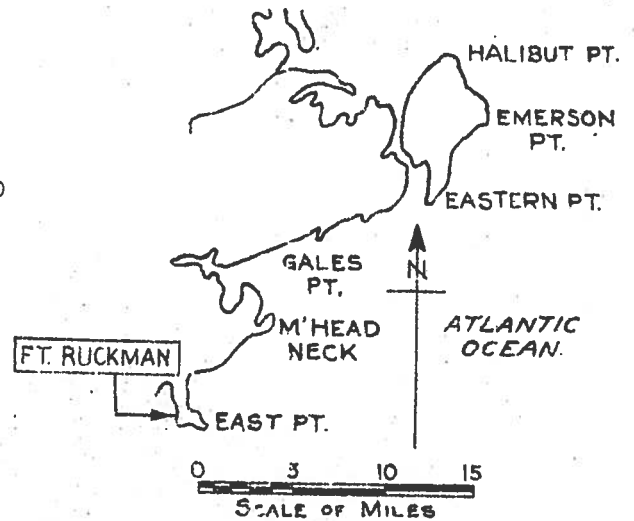
Town Nahant County Essex State Massachusetts

Site No. Installation

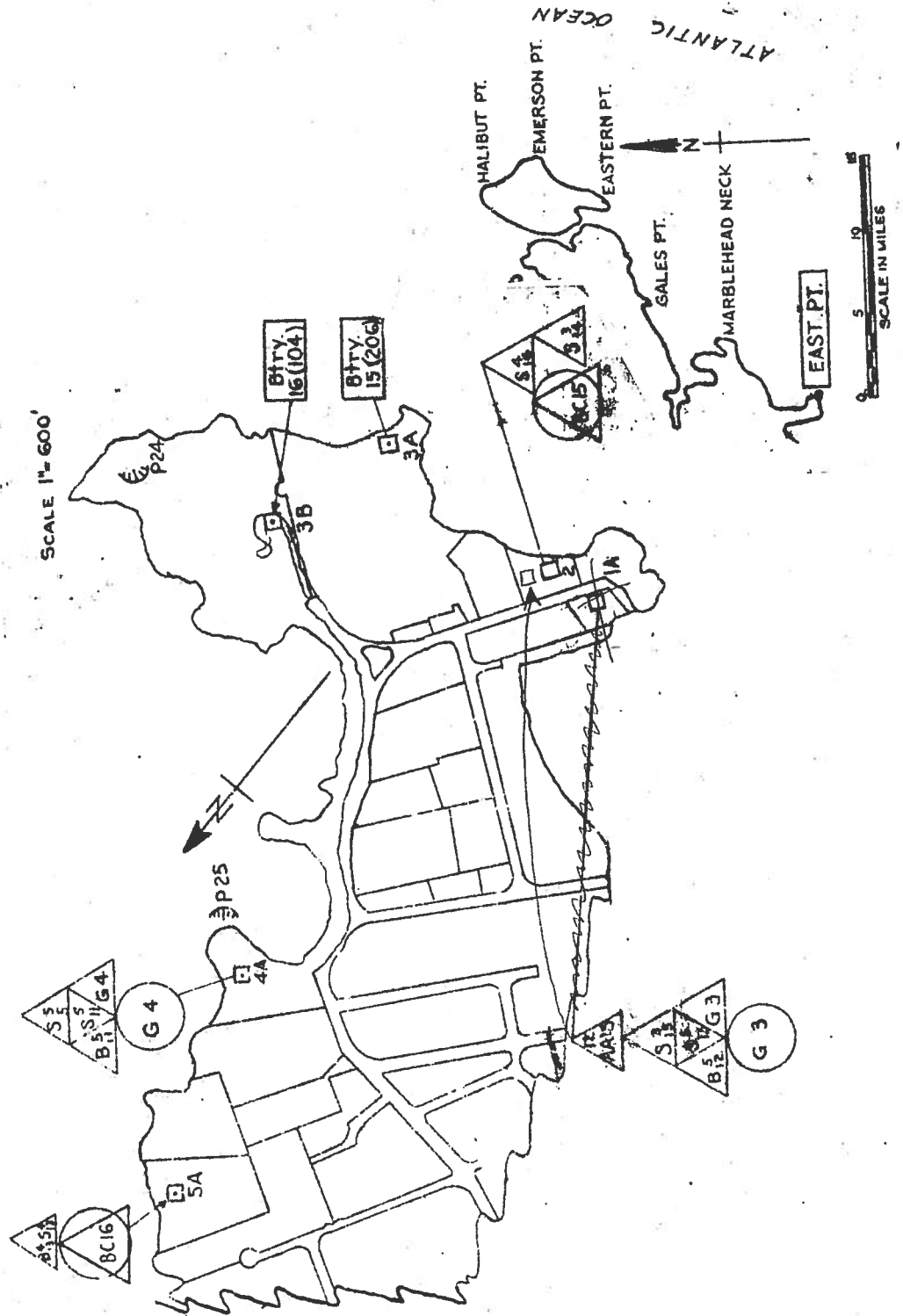
MAP OF
GENERAL LOCALITY

1	A
2	A
2	B
2	C
3	A

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



S E C R E T



SECRET

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 132

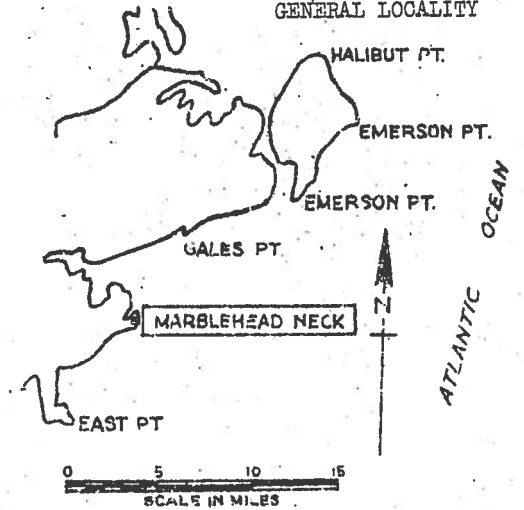
Place MARBLEHEAD NECK

Town Marblehead County Essex State Massachusetts

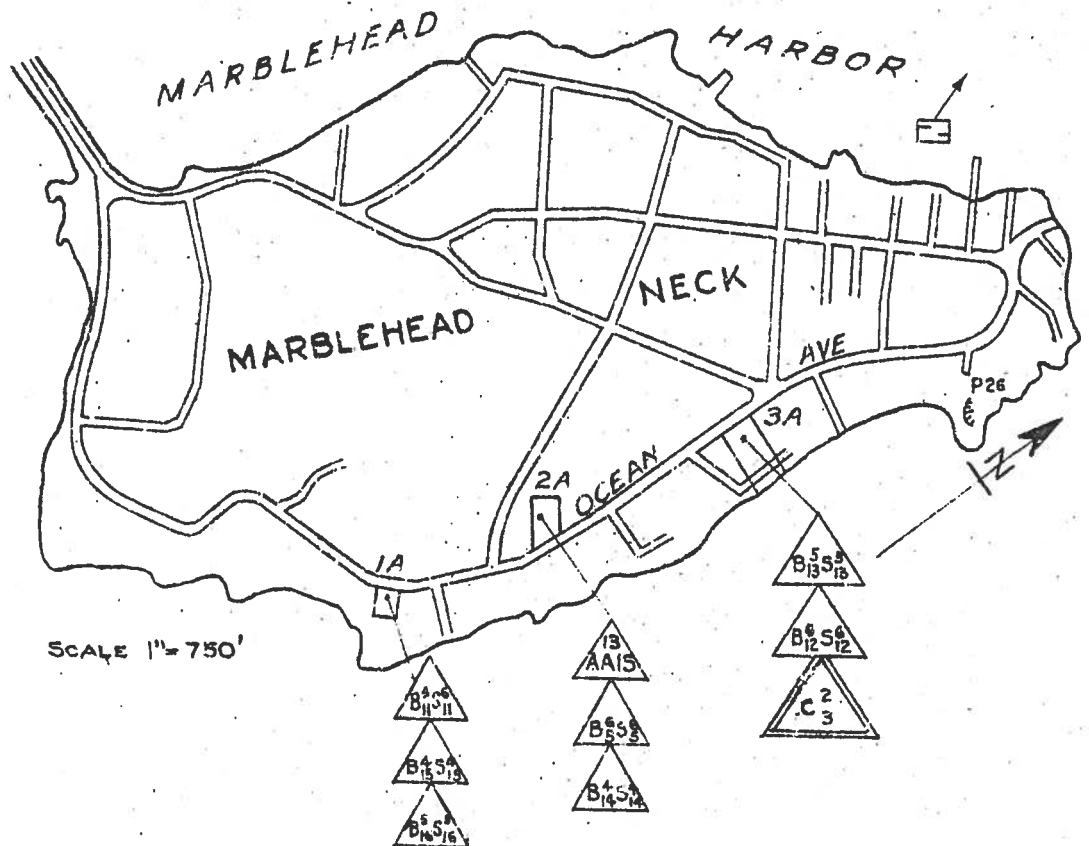
Site No. Installation

1	A
2	A
3	A

MAP OF
GENERAL LOCALITY



SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



SECRET

SECRET

Form #36, Annex I

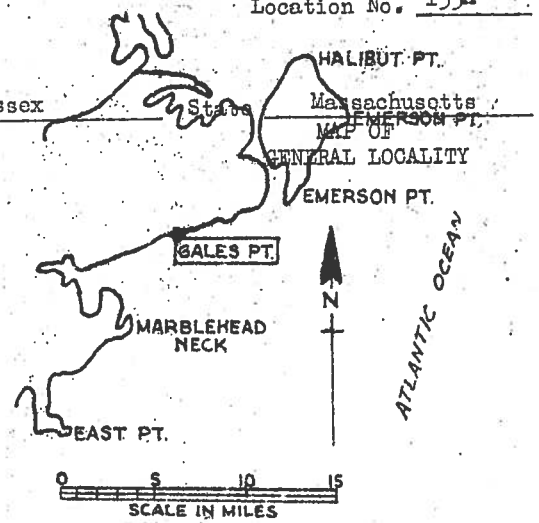
H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

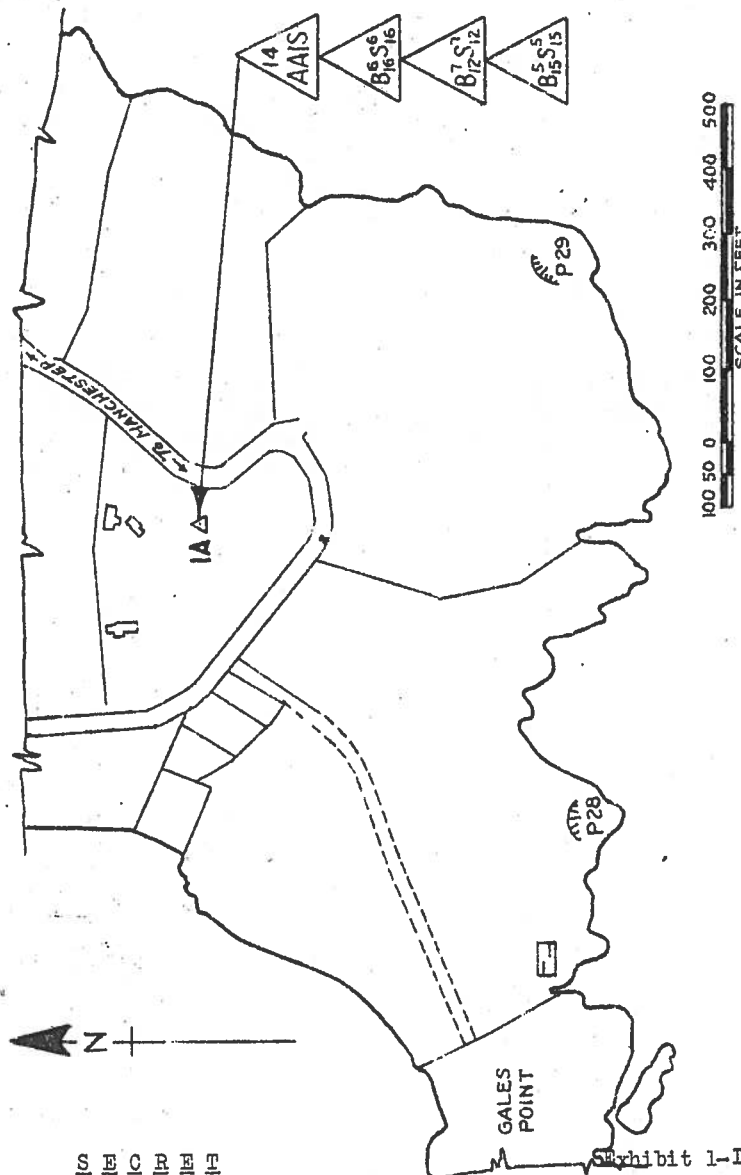
Location No. 133A

Place GALES POINT
Town Manchester County Essex

Site No. 1 Installation A



SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



SECRET

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 134

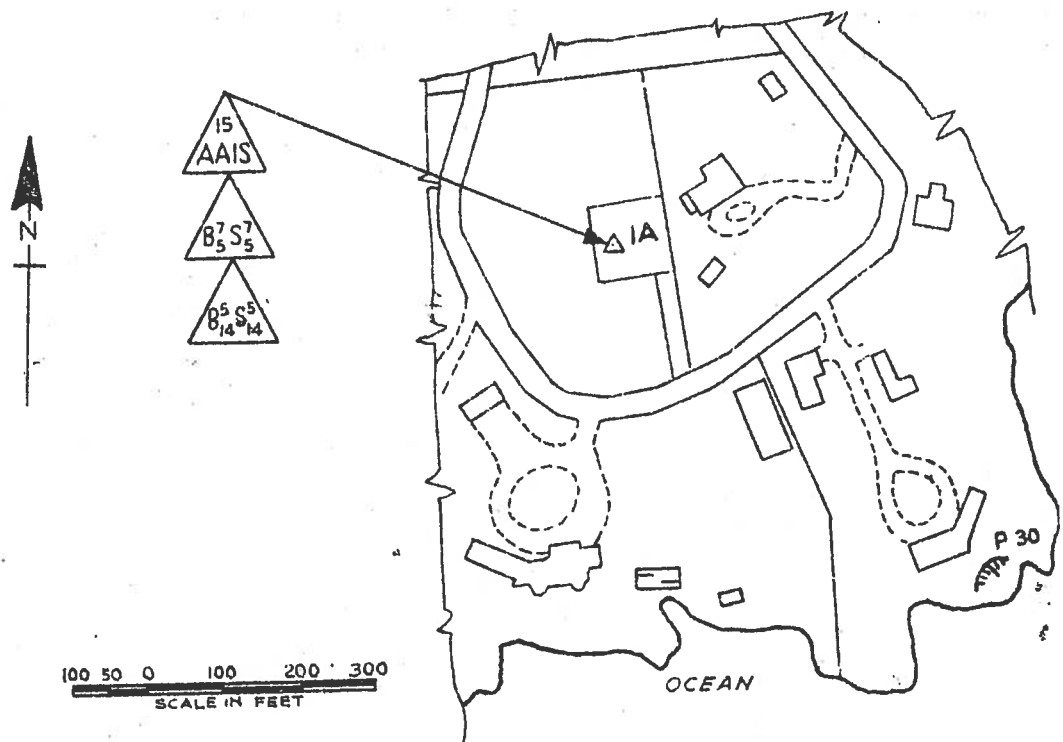
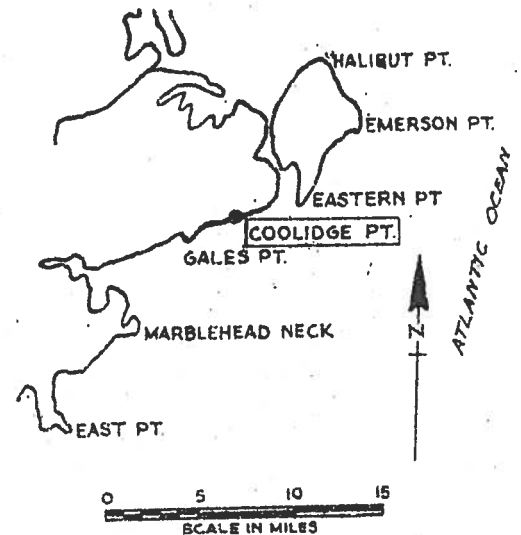
Place COOLIDGE POINT

Town Manchester County Essex State Massachusetts

Site No. 1 Installation A

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



S E C R E T

SECRET

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 134A

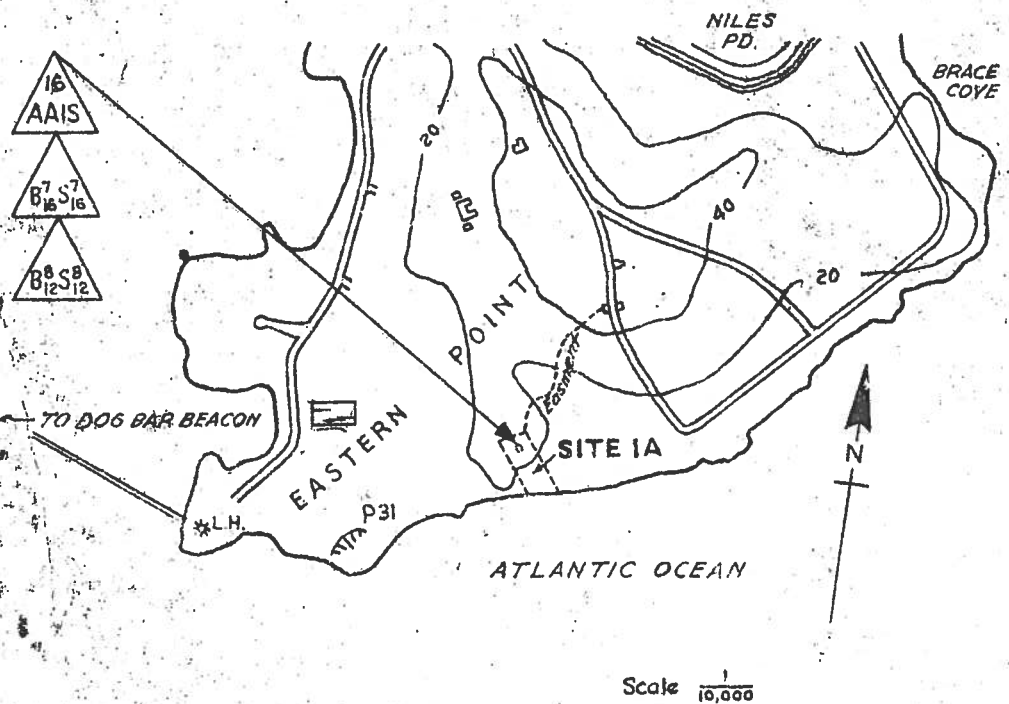
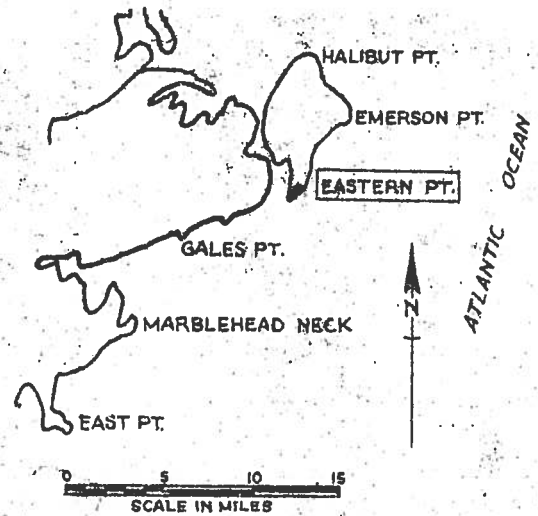
Place EASTERN POINT

Town Gleicester County Essex State Massachusetts

Site No. 1 Installation A

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



SECRET

SECRET

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 135

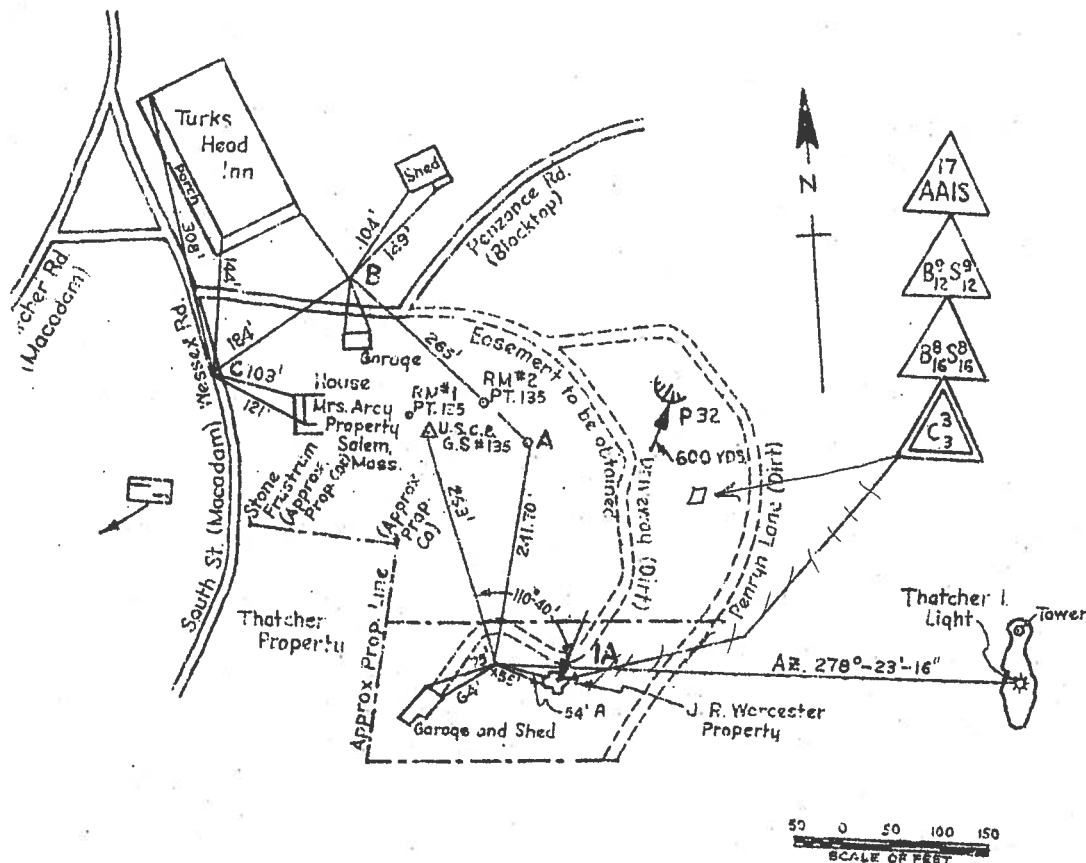
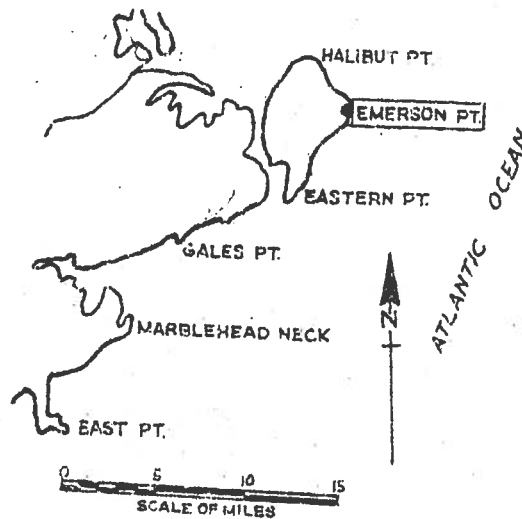
Place EMERSON POINT

Town Rockport County Essex State Massachusetts

Site No. 1 Installation A

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FM 4 - 155,



SECRET

S E C R E T

Form #36, Annex I

H. D. of Boston

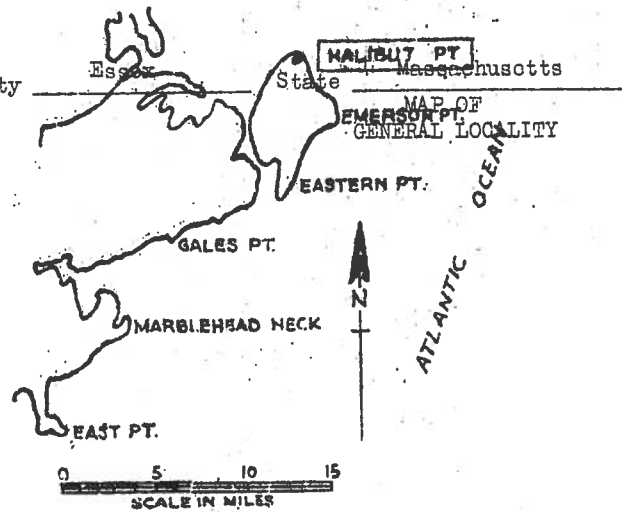
MAP OF ARTILLERY INSTALLATIONS

Location No. 136

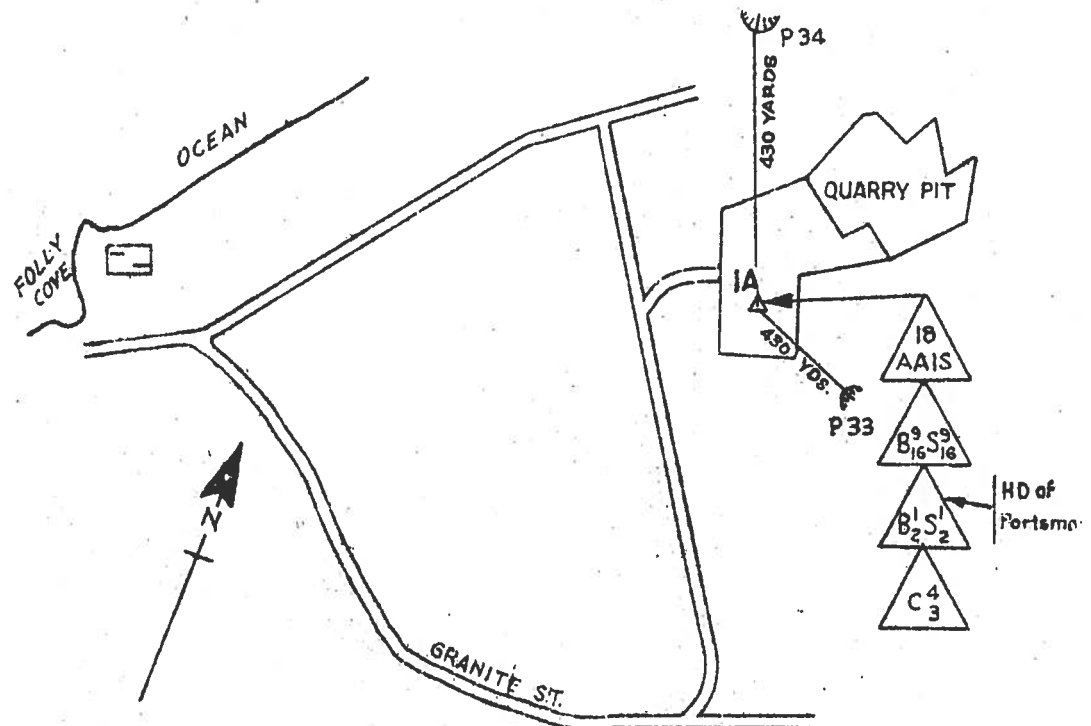
Place HALIBUT POINT

Town Rockport County Essex State Massachusetts

Site No. 1 Installation A



SCALE MAP SHOWING THE SITE OF EACH PROPOSED ARTILLERY INSTALLATION, BY NUMBER AND SYMBOL - SEE FN 4 - 155.



S E C R E T

S E C R E T

Form #36, Annex I

H. D. of Boston

MAP OF ARTILLERY INSTALLATIONS

Location No. 137

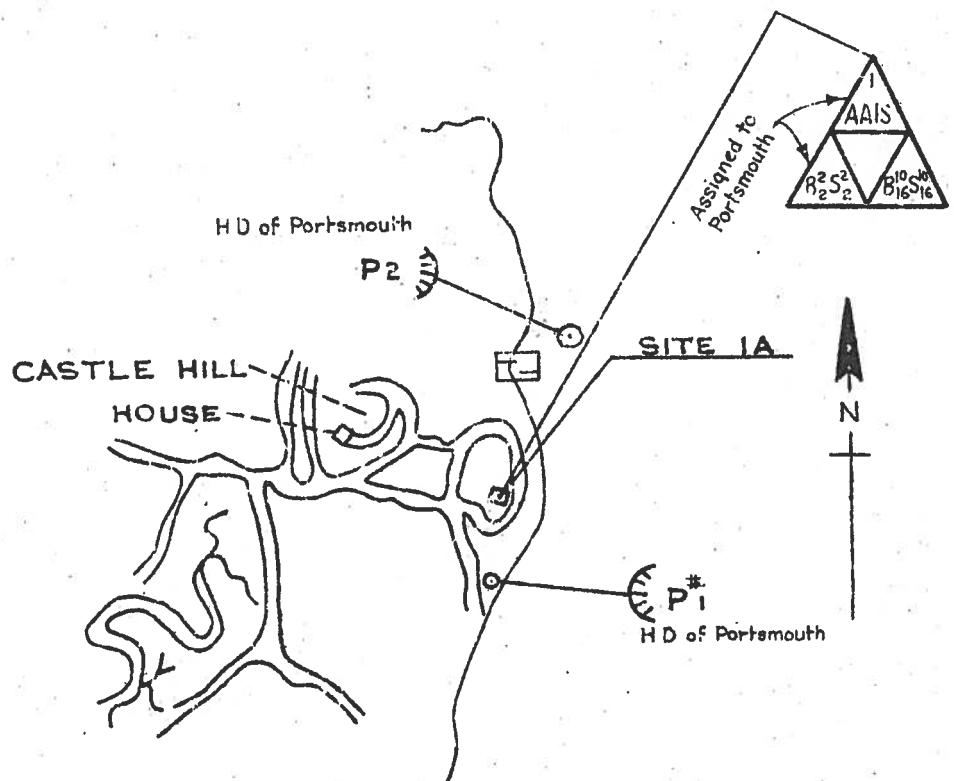
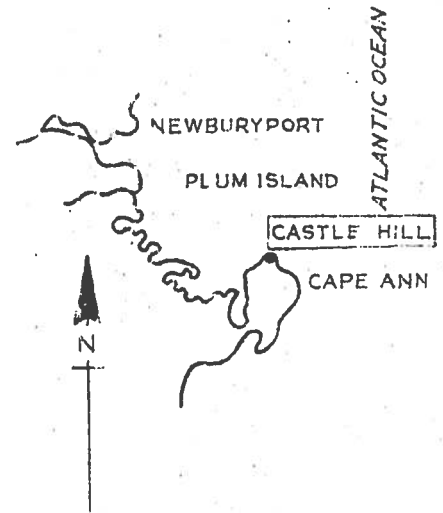
Place CASTLE HILL

Town Ipswich County Essex State Massachusetts

Site No. 1 Installation A

MAP OF
GENERAL LOCALITY

SCALE MAP SHOWING THE SITE
OF EACH PROPOSED ARTILLERY
INSTALLATION, BY NUMBER AND
SYMBOL - SEE FN 4 - 155.



S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 110

PLACE Manomet Point

Town Plymouth County Plymouth State Massachusetts

1. Installations to be located here:

Site 1-A: AAIS and OP #1

B₁¹ S₁¹ - Btry. #106

CL₁¹ - OP

S/L 1-P and 2-P

2. Number and type of structures to be constructed:

One (1) cottage type observing station, 2-story

3. Type of site: Open x Wooded Hilly x Level
Lodge Smooth Obstructions to sight Lookout on C. G. Sta.

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Arnold Avenue

5. Proposed fire control cable hut Cable terminal

6. Nearest commercial electric power 200'

7. Delco type generator required? No

8. Housing facilities necessary 24 men

9. Sewer facilities City - in front of lots

10. Type of water supply: City Plymouth Distance 50 ft.

Well (estimated depth) None required

11. Elevation of each construction site above mean low water 72 ft.

REMARKS:

#8 - AWS - 3 men
CL - 3 men
B1 S1 #106 - 6 men
AAIS - 3 men
SL Crews - 8 men
Cook - 1 man

#3 - C. G. Station 88' to
bottom of window sills
of lookout tower.

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 111

PLACE Gurnet Point

Town Plymouth County Plymouth State Massachusetts

1. Installations to be located here:

Site 1-A: AAIS OP #2

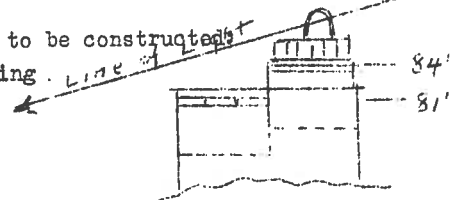
B $\frac{1}{2}$ S $\frac{1}{2}$ - Btry. #208

B $\frac{2}{1}$ S $\frac{2}{1}$ - Btry. #106

S/L - 3 P and 4 P

2. Number and type of structures to be constructed:

One (1) cottage type observing station, 1-story



3. Type of site: Open X Wooded _____ Hilly X Level _____
Lodge _____ Smooth _____ Obstructions to sight None

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road None - Approach on sandy beach (5 1/2 miles)

5. Proposed fire control cable hut Cable terminal

6. Nearest commercial electric power 5 1/2 miles

7. Delco type generator required? Yes

8. Housing facilities necessary 27 men

9. Sewer facilities None

10. Type of water supply: City None Distance 5 1/2 miles

Well (estimated depth) 30 ft. well exists - limited supply

11. Elevation of each construction site above mean low water 62 ft.

REMARKS: #2 - Cottage station should include facilities for Coast Guard Lookout. Top of cottage must be below line of light and buoy at inner edge of ship channel. 25' above site will allow proper light clearance. Gurnet Light is at 102' M.S.L.

#6 - B $\frac{1}{2}$ S $\frac{1}{2}$	#208 - 6 men	2 SL crews - 8 men
B $\frac{2}{1}$ S $\frac{2}{1}$	#106 - 6 men	1 Cook - 1 man
AAIS	- 3 men	AWS - 3 men
		27 men

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 112
 PLACE Brant Rock
 Town Marshfield County Plymouth State Mass.

1. Installations to be located here:

Site 1-A: AAIS OP#3	Site 2-A:
B ₁₂ ¹ S ₁₂ ¹ - Battery #105	B ₅ ¹ S ₅ ¹ - Battery Long
B ₂ ² S ₂ ² - Battery #208	B ₃ ³ S ₃ ³ - Battery #106
S/L - 5P	S/L - 6P

2. Number and type of structures to be constructed:

Two steel-tower-type observing stations, 2-story

3. Type of site: Open X Wooded _____ Hilly _____ Level X
 Lodge _____ Smooth X Obstructions to sight None

UTILITIES INFORMATION - Give location and approximate distance to:
 Adjacent to sites

4. Approach road _____
5. Proposed fire control cable hut Cable Terminal
6. Nearest commercial electric power Adjacent to Sites
7. Delco type generator required? None
8. Housing facilities necessary 38 men
9. Sewer facilities Adjacent to Sites
10. Type of water supply: City Marshfield Distance Adjacent
Well (estimated depth) None required
11. Elevation of each construction site above mean low water Site 1-A, 25';
Site 2-A, 10'

REMARKS:

#3 includes.-	6 men per OP	24 men
	3 men AWS	3 men
	3 men AAIS OP	3 men
	4 men AAIS SL	8 men
		<u>38 men</u>

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 113

PLACE Flowers Hill (near Fourth Cliff)

Town Marshfield County Plymouth State Mass.

1. Installations to be located here:

Site 1-A: Battery #1 - Constr. #106

Site 1-B: BC₁ - Battery #106

Site 1-C: Bombproof Magazine

2. Number and type of structures to be constructed:

1 - steel tower - windmill type, observing station

1 - Battery No. 1, Constr. #106 - 2 - 16" B. C.

1 - Bombproof Magazine

3. Type of site: Open _____ Wooded X Hilly X Level _____

Lodge _____ Smooth _____ Obstructions to sight 30' trees

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes - adjacent

5. Proposed fire control cable hut None

6. Nearest commercial electric power Yes - adjacent

7. Delco type generator required? None

8. Housing facilities necessary Battery personnel (180 men)

9. Sewer facilities No

10. Type of water supply: City Marshfield Distance 700 feet

Well (estimated depth) None

11. Elevation of each construction site above mean low water Site 1-B, 80'

REMARKS:

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 114

PLACE Fourth Cliff

Town Scituate County Plymouth State Mass.

1. Installations to be located here:

Site 1-A: AAIS OP#4	Site 1-C: Btry. #2 - Constr. #208
B ₁₆ ¹ S ₁₆ ¹ - Btry. #104	Site 1-D: B ₁ ⁴ S ₁ ⁴ - Btry. #106
B ₁₁ ¹ S ₁₁ ¹ - Btry. #209	B ₂ ³ S ₂ ³ - Btry. #208
GI-OP	B ₅ ² S ₅ ² - Btry. Long
GI-CP	S/L - 7P and 8P
Site 1-B: BC 2 - Btry #208	
B ₁₂ ² S ₁₂ ² - Btry. #105	

2. Number and type of structures to be constructed:

1 - Battery #2 - Constr. #208 - 2-6" BC
3 - Cottage-type observing stations - 3-story

3. Type of site: Open x Wooded _____ Hilly x Level _____
Lodge _____ Smooth _____ Obstructions to sight None

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes - adjacent to
5. Proposed fire control cable hut Cable terminal
6. Nearest commercial electric power Adjacent
7. Delco type generator required? None
8. Housing facilities necessary Battery personnel (139 men) plus 44 men
9. Sewer facilities Yes - adjacent
10. Type of water supply: City Scituate Distance Adjacent
Well (estimated depth) None
11. Elevation of each construction site above mean low water _____
Site 1-A, 52'; Site 1-B, 45'; Site 1-D, 40'

REMARKS:

#6 - 5 OP's - 8 men each	30 men)
2 SL - 4 men each	8 men)
3 AWS	3 men)
3 AAIS OP	3 men)
Battery	139 men)
	183 men

Summer houses should be retained for this purpose.

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 115

PLACE Strawberry Point

Town Scituate County Plymouth State Mass.

1. Installations to be located here:

Site 1-A:	Site 1B:	Site 1C:
AAIS OP#5	B ⁴ ₂ S ⁴ ₂ - Btry. #208	B ³ ₃ S ³ ₃ - Btry. Long
B ¹ ₁₅ S ¹ ₁₅ - Btry. #206	B ³ ₁₂ S ³ ₁₂ - Btry. #105	B ¹ ₁₄ S ¹ ₁₄ - Btry. Gardner
B ¹ ₁₃ S ¹ ₁₃ - Btry #207	G2-OP	S/L - 10P
B ⁵ ₁ S ⁵ ₁ - Btry. #106	G2-CF	Site 1D:
		B ² ₁₆ S ² ₁₆ - Btry. #104
		G2-OP : B ² ₁₁ S ² ₁₁ - Btry. #209
		: S/L - 9P

2. Number and type of structures to be constructed:

- 1 - steel tower type observing station, 3-story
- 2 - cottage type observing stations, 3-story
- 1 - 2-story steel tower (existing) to be splinter-proofed

3. Type of site: Open _____ Wooded X Hilly X Level _____
 Lodge X Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

- 4. Approach road Yes (through area to be acquired)
- 5. Proposed fire control cable hut Cable terminal
- 6. Nearest commercial electric power 1/2 mile
- 7. Delco type generator required? No
- 8. Housing facilities necessary 79 men
- 9. Sewer facilities None
- 10. Type of water supply: City Scituate Distance 1/2 mile
 Well (estimated depth) None
- 11. Elevation of each construction site above mean low water _____
Site 1A, 40'; Site 1B, 35'; Site 1C, 50'; Site 1D, 25'

REMARKS:

#8 - includes.-
 6 men for 10 Btry OP's 60 men
 3 men each for G1-OP,
 AAIS, AWS 9 men
 2 cooks 2 men
 2 SL crews 8 men
 79 men

#2 - Site #3 - Existing 2-story steel tower. Window shields to be changed to 1" steel and floor to be splinter-proofed.

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 116

PLACE Strawberry Hill

Town Hull County Plymouth State Mass.

1. Installations to be located here:

Site 1A: AAIS OP6

1 1
D S
10 10

S/L - 11P and 12P

2. Number and type of structures to be constructed:

1-story concrete observing station (existing) to be splinter-proofed
Windows to be fitted with splinter-proof shutters

3. Type of site: Open x Wooded _____ Hilly x Level _____

Lodge _____ Smooth _____ Obstructions to sight None

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes, Nantasket Ave.

5. Proposed fire control cable hut None

6. Nearest commercial electric power Adjacent

7. Delco type generator required? None

8. Housing facilities necessary None

9. Sewer facilities Adjacent

10. Type of water supply: City Hull Distance Adjacent

Well (estimated depth) None

11. Elevation of each construction site above mean low water 100'

REMARKS:

S E C R E T

Exhibit 2-I, Page 7 of 29 pages

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 117PLACE Fort AndrewsTown Paddock Is. County Plymouth State Mass.

1. Installations to be located here:

Site 1-A: $B_4^1 S_4^1$

Site 1-G: FSD

Site 1-B: BC_4, P_4 Site 1-C: CRF_3

Site 1-D: Btry. #3

Site 1-E: Btry. #4

Site 1-F: S/L #15(F)

2. Number and type of structures to be constructed:

Site 1-A: 1 - 2-story station (existing) to be splinterproofed

Site 1-B: 1 - 2-story station (existing) to be splinterproofed

Site 1-C: Old observing station (existing) to have splinterproofed
apron

Site 1-G: FSD (existing) to be bombproofed

3. Type of site: Open _____ Wooded _____ Hilly _____ Level _____

Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road _____

5. Proposed fire control cable hut _____

6. Nearest commercial electric power _____

7. Delco type generator required? _____

8. Housing facilities necessary _____

9. Sewer facilities _____

10. Type of water supply: City _____ Distance _____

Well (estimated depth) _____

11. Elevation of each construction site above mean low water _____

REMARKS:

Government Reservation

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 118PLACE Ft. DuvallTown Hog Island County Plymouth State Mass.

1. Installations to be located here:

Site 1-A: Battery #5 (Long) (existing)

FSB (existing)

P5 (existing)

2. Number and type of structures to be constructed:

None

3. Type of site: Open _____ Wooded _____ Hilly _____ Level _____

Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road _____

5. Proposed fire control cable hut _____

6. Nearest commercial electric power _____

7. Delco type generator required? _____

8. Housing facilities necessary _____

9. Sewer facilities _____

10. Type of water supply: City _____ Distance _____

Well (estimated depth) _____

11. Elevation of each construction site above mean low water _____

REMARKS:

Government reservation.

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 119

PLACE Fort Revere

Town Hull County Plymouth State Mass.

1. Installations to be located here:

Site 1-A: M_1^2 -R, M_1^2 -L

Site 1-D: S/L Shelter

Site 1-B: AA Btry. #1

Site 1-E: FSB

Site 1-C: S/L #14 (F)

2. Number and type of structures to be constructed:

Site 1-A: 1-story station (existing) to be splinterproofed

Site 1-E: FSB (existing) to be bombproofed

3. Type of site: Open _____ Wooded _____ Hilly _____ Level _____
Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road _____
5. Proposed fire control cable hut _____
6. Nearest commercial electric power _____
7. Delco type generator required? _____
8. Housing facilities necessary _____
9. Sewer facilities _____
10. Type of water supply: City _____ Distance _____
Well (estimated depth) _____
11. Elevation of each construction site above mean low water _____

REMARKS:

Government Reservation

S E C R E T

Exhibit 2-I, Page 10 of 29 pages

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 120PLACE Point AllertonTown Hull County Plymouth State Mass.

1. Installations to be located here:

Site 1-A:	Site 2-A:	Site 3-A:
AAIS OP#7	B ₁₄ ² S ₁₄ ² - Gardner	B ₁₂ ⁴ S ₁₂ ⁴ - Battery #105
B ₁₆ ³ S ₁₆ ³ - Battery #104	BC ₅ - Long	B ₁₅ ² S ₁₅ ² - Battery #206
B ₁₁ ³ S ₁₁ ³ - Battery #209	C ₁ ³ -OP	S/L - 13P
B ₁₃ ² S ₁₃ ² - Battery #207	C ₁ -CP	
	B ₅ ⁴ S ₅ ⁴ - Long	

2. Number and type of structures to be constructed:

Site 1-A: 1 cupola-type, 2-story steel tower, to be built in patio of an existing building.

Site 2-A: Existing concrete, 2-story cottage station, to be splinterproofed.

Site 3-A: 1 cottage-type observing station, 2-story.

3. Type of site: Open X Wooded _____ Hilly X Level _____
 Hsc. #12,
 Lodge _____ Smooth _____ Obstructions to sight Bluff Rd. to #1-A.

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Adjacent
5. Proposed fire control cable hut None
6. Nearest commercial electric power Adjacent
7. Delco type generator required? None
8. Housing facilities necessary 63 Men
9. Sewer facilities Adjacent
10. Type of water supply: City Hull Distance Adjacent
 Well (estimated depth) None
11. Elevation of each construction site above mean low water _____
 Site 1-A, 125'; Site 2-A, 100'; Site 3-A, 60'.

REMARKS: #8 8 observing station 6 men - 48
 AAis 3 men - 3
 C1 3 men - 3
 AWS 3 men - 3
 SL 4 men - 4
 2 Cooks 2 men - 2
63 men

SECRET

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 121PLACE Fort Warren (cont'd)Town Georges Island County Suffolk State Mass.

1. Installations to be located here:

Site 1-F: S/L #18(F)
Site 1-G: FSB
Site 1-H: Magazine
Site 1-I: Magazine

2. Number and type of structures to be constructed:

Site 1-G: FSB (existing) to be bombproofed

3. Type of site: Open _____ Wooded _____ Hilly _____ Level _____
Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road _____
5. Proposed fire control cable hut _____
6. Nearest commercial electric power _____
7. Delco type generator required? _____
8. Housing facilities necessary _____
9. Sewer facilities _____
10. Type of water supply: City _____ Distance _____
Well (estimated depth) _____
11. Elevation of each construction site above mean low water _____

REMARKS:

Government Reservation

S E C R E T

Exhibit 2-I, Page 13 of 29 pages

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 122

PLACE Fort Strong

Town Long Island County Suffolk State Mass.

1. Installations to be located here:

Site 1-A: Btry. #6	Site 1-F: Btry. #7
CRF-6	CRF-7
Site 1-B: Btry. #8	Site 1-G: S/L #19(F)
CRF-8	Site 1-H: FSB
Site 1-C: AA Btry. #3	Site 1-I: Magazine
Site 1-D: Mine Storeroom	Site 1-J: Magazine
Mine Loading Room	
Site 1-E: Mine Casemate	

2. Number and type of structures to be constructed:

Site 1-F: CRF-7, to have splinterproofed apron
Site 1-H: FSB (existing) to be bombproofed

3. Type of site: Open _____ Wooded _____ Hilly _____ Level _____
Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road _____
5. Proposed fire control cable hut _____
6. Nearest commercial electric power _____
7. Delco type generator required? _____
8. Housing facilities necessary _____
9. Sewer facilities _____
10. Type of water supply: City _____ Distance _____
Well (estimated depth) _____
11. Elevation of each construction site above mean low water _____

REMARKS:

Government Reservation

S E C R E T

Exhibit 2-I, Page 14 of 29 pages

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 123

PLACE Fort Standish

Town Lovell's Island County Suffolk State Mass.

1. Installations to be located here:

Site 1-A: Btry. #9

Site 1-G: M_2^2 -R & M_2^2 -L

Site 1-B: CRT-9

Site 1-C: Btry. #10

M₂-PR & CP

Site 1-D: CRF-10

Site 1-E: $B_{10}^2 S_{10}^2$

Site 1-F: AA Btry. #2

2. Number and type of structures to be constructed:

Site 1-B: Wooden Platform for CRFg (existing) to have splinterproof apron.

Site 1-D: Concrete CRF₁₀ station (existing) to have heavy steel shutter

Site 1-E: 1-story station (existing), left station to be splinterproofed

Site 1-G: 1-story double station (existing) to be splinterproofed

3. Type of site: Open _____ Wooded _____ Hilly _____ Level _____

Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road

5. Proposed fire control cable hut _____

6. Nearest commercial electric power _____

7. Delco type generator required? _____

8. Housing facilities necessary

9. Sewer facilities _____

10. Type of water supply: City _____ Distance _____

Well (estimated depth) _____

11. Elevation of each construction site above mean low water _____

REMARKS:

Government Reservation

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 123

PLACE Fort Standish (cont'd)

Town Lovell's Island County Suffolk State Mass.

1. Installations to be located here:

Site 1-H: BC₁₀
PR-10
Site 1-I: S/L #20(F)
Site 1-J: FSB

2. Number and type of structures to be constructed:

Site 1-H: 1-story station and PR (existing) to be splinterproofed
Site 1-J: FSB (existing) to be bombproofed

3. Type of site: Open _____ Wooded _____ Hilly _____ Level _____

Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road _____

5. Proposed fire control cable hut _____

6. Nearest commercial electric power _____

7. Delco type generator required? _____

8. Housing facilities necessary _____

9. Sewer facilities _____

10. Type of water supply: City _____ Distance _____

Well (estimated depth) _____

11. Elevation of each construction site above mean low water _____

REMARKS:

Government Reservation

S E C R E T

Exhibit 2-I, Page 16 of 29 pages

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 126

PLACE Outer Brewster

Town Outer Brewster County Suffolk State Mass.

1. Installations to be located here:

Site 1-A: AAIS OP#9

⁴ ⁴
B₁₁S₁₁ - Btry. #209

BC11 - Btry. #209

Site 1-B: Btry. #11,
Constr. #209
FSB
S/L 16P & 17P

2. Number and type of structures to be constructed:

Site 1-A: 1 cottage-type observing station, 2-story

Site 1-B: Battery #11, Constr. #209, 2 - 6" BC

3. Type of site: Open X Wooded Hilly X Level

Lodge X Smooth Obstructions to sight None

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road None

5. Proposed fire control cable hut Cable terminal

6. Nearest commercial electric power On mainland

7. Delco type generator required? Yes

8. Housing facilities necessary 94 men

9. Sewer facilities None

10. Type of water supply: City None Distance

Well (estimated depth) Shallow surface well-water very limited

11. Elevation of each construction site above mean low water

Site 1-A, 65'

REMARKS#8 - AWS 3
 AAIS 3
 Btry. 80
 2 S/L's 8
 94

S E C R E T

Exhibit 2-I, Page 17 of 29 pages

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 127

PLACE Fort Dawes

Town Boston County Suffolk State Mass.

1. Installations to be located here:

Site 1-A: SL #21 - Fixed	Site 1-I: C ¹ ₃ -OP
Site 1-B: Btry. #12, Constr. #105	MG2-CP & OP
Site 1-C: Btry. #13, Constr. #207	B ³ ₁₀ S ³ ₁₀ - Whipple
Site 1-D: B ² ₁₄ S ² ₁₄ - McCook	Site 1-J: HECF
Site 1-E: BC 12 - Btry. #105	Site 1-K: SL #22 - Fixed
Site 1-F: B ³ ₁₃ S ³ ₁₃ - Btry. #207	Site 1-L: Bombproof magazines
Site 1-G: AAIS OP#10, BC13	
Site 1-H: M ¹ ₂ -R and M ¹ ₂ -L	

2. Number and type of structures to be constructed:

Site 1-B: Btry. #12, Constr. #105, 2-16" BC(C)
 Site 1-C: Btry. #13, Constr. #207, 2-6" BC(S)
 Site 1-D,E,F: 3 concrete manhole observing stations (exist.) to be splinterproof
 Site 1-G,H: 2 1-story concrete observing stations (exist.) to be splinterproof.
 Site 1-I: 1 1-story stucco observing station (exist.) to be splinterproofed
 Site 1-J: Harbor Entrance Control Post Structure
 Site 1-L: Bombproof Magazine, 3 sections

3. Type of site: Open X Wooded _____ Hilly X Level _____

Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes

5. Proposed fire control cable hut None

6. Nearest commercial electric power Adjacent

7. Delco type generator required? None

8. Housing facilities necessary Authorized or existing

9. Sewer facilities Adjacent - Government owned

10. Type of water supply: City Winthrop Distance Adjacent

Well (estimated depth) None

11. Elevation of each construction site above mean low water _____

1-B, 15'; 1-C, 75'; 1-D, 86'; 1-E, 93'; 1-F, 85'; 1-G, 105';
1-H, 40'; 1-I, 56'; 1-J, 55'

REMARKS:

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 128

PLACE Fort Banks

Town Winthrop County Suffolk State Mass.

1. Installations to be located here:

Site 1-A: HDOP
Boston Subsector CP
AACP
Radio
Message Center

Site 1-A: FSB
PSB

2. Number and type of structures to be constructed:

Site 1-A: Bombproof magazines (existing) to be converted into the above-listed installations. To be lighted, heated, and gas-proofed.

3. Type of site: Open _____ Wooded _____ Hilly _____ Level _____
Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road _____
5. Proposed fire control cable hut _____
6. Nearest commercial electric power _____
7. Delco type generator required? _____
8. Housing facilities necessary _____
9. Sewer facilities _____
10. Type of water supply: City _____ Distance _____
Well (estimated depth) _____
11. Elevation of each construction site above mean low water _____

REMARKS:

Government Reservation

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 129

PLACE Fort Heath

Town Winthrop County Suffolk State Mass.

1. Installations to be located here:

Site 1-A: AAIS #11

B³S³
4 4

Site 1-B: Cable Terminal

2. Number and type of structures to be constructed:

Site 1-A: 1-story station (existing); roof to be splinterproofed
and steel window shutters to be installed.

3. Type of site: Open _____ Wooded _____ Hilly _____ Level _____

Lodge _____ Smooth _____ Obstructions to sight _____

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road _____

5. Proposed fire control cable hut _____

6. Nearest commercial electric power _____

7. Delco type generator required? _____

8. Housing facilities necessary _____

9. Sewer facilities _____

10. Type of water supply: City _____ Distance _____

Well (estimated depth) _____

11. Elevation of each construction site above mean low water _____

REMARKS:

Government Reservation

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 130

PLACE Fort Ruckman

Town Nahant County Essex State Mass.

1. Installations to be located here:

Site 1-A: BCL ⁴ ₄ (Gardner)	Site 2-A: Btry. #14
B ⁴ ₁₀ S ⁴ ₁₀ (Whipple)	Site 2-B: SL #23
B ⁴ ₄ S ⁴ ₄ (McCook)	Site 2-C: AA Btry. #4
C3-CP	Site 3-A: BB Magazine

2. Number and type of structures to be constructed:

Site 1-A: 1 cottage-type observing station, 3-story
 Site 2-A: Btry. #14, Gardner, 2-12" BC, to be casemated
 Site 3-A: Bombproof magazine, 3 sections
 Site 2-C: Construct gun blocks and generator shed

3. Type of site: Open X Wooded _____ Hilly X Level _____
 Lodge X Smooth _____ Obstructions to sight Ridge on East Point

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes, Colby Way
 5. Proposed fire control cable hut None
 6. Nearest commercial electric power Adjacent
 7. Delco type generator required? None
 8. Housing facilities necessary Existing
 9. Sewer facilities City - Adjacent
 10. Type of water supply: City Nahant Distance Adjacent
 Well (estimated depth) None
 11. Elevation of each construction site above mean low water _____
Site 1-A, 85'; Site 2-A, 50'.

REMARKS:

SECRET

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 131

PLACE East Point

Town Nahant County Essex State Mass.

1. Installations to be located here:
- | | | |
|---|---|--|
| Site 1-A: AAIS OP#12 | Site 2-A: B ₁₆ S ₁₆ - Btry #104 | Site 4-A (con.)
G4-OP & SL 25P
G4-CP |
| B ₁₅ S ₁₅ - Btry #206 | B ₁₄ S ₁₄ - Gardner | Site 5-A:- |
| B ₁₂ S ₁₂ - Btry #105 | BC 15, Btry. #206 | B ₁₃ S ₁₃ - Btry. #207 |
| G3-OP | Site 3-A: Btry. #15 | BC16 - |
| G3-CP | Site 3-B: Btry. #16 | Btry. #104 |
| | Site 4-A: B ₅ S ₅ - Long | SL - 24P |
| | B ₁₁ S ₁₁ - Btry #209 | |

2. Number and type of structures to be constructed:
- Sites 1-A, 2-A, 5-A: 3 cottage-type observing stations, 3-story
- Site 3-A: Btry. #15, Constr. #206, 2-6" BC(S)
- Site 3-B: Btry. #16, Constr. #104, 2-16" BC(O)
- Site 4-A: 1 concrete observing station, 3-story

3. Type of site: Open _____ Wooded X Hilly X Level Trees, Site 1 & 2
- Lodge X Smooth _____ Obstructions to sight Cupola, Site 1

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes
5. Proposed fire control cable hut Cable Terminal
6. Nearest commercial electric power Adjacent
7. Delco type generator required? None
8. Housing facilities necessary 336 Men
9. Sewer facilities City adjacent
10. Type of water supply: City Nahant Distance Adjacent
- Well (estimated depth) None
11. Elevation of each construction site above mean low water Site 1-A, 35';
Site 2-A, 25'; Site 4-A, 45'; Site 5-A, 60'.

REMARKS:

#8-	Btry. #16	180 men
	Btry. #15	100 men
	7 station	42 men
	2 SL	8 men
	AWS	6 men
		<u>336 men</u>

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 132

PLACE Marblehead Neck

Town Marblehead County Essex State Mass.

1. Installations to be located here:

Site 1-A: $B_{11}^{66}S_{11}^{66}$ - Btry. #209 Site 2-A: $B_{14}^{44}S_{14}^{44}$ - Gardner
 $B_{15}^{44}S_{15}^{44}$ - Btry. #206 Site 3-A: $B_{13}^{55}S_{13}^{55}$ - Btry. #207
 $B_{16}^{55}S_{16}^{55}$ - Btry. #104 $B_{12}^{66}S_{12}^{66}$ - Btry. #105
Site 2-A: AAIS OP#13 C_3^2 -OP
 $B_5^{66}S_5^{66}$ - Long S/L - 26P

2. Number and type of structures to be constructed:

Sites 1-A and 3-A: 2 cottage-type observing stations, 3-story
Site 2-A: 1 cottage-type observing station (authorized), 2-story

3. Type of site: Open x Wooded Hilly x Level
Lodge Smooth Obstructions to sight Buildings

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes - Green Avenue
5. Proposed fire control cable hut Cable terminal
6. Nearest commercial electric power Adjacent
7. Delco type generator required? None
8. Housing facilities necessary 58 men
9. Sewer facilities Yes - City - Adjacent
10. Type of water supply: City Marblehead Distance Adjacent
Well (estimated depth) None
11. Elevation of each construction site above mean low water
Site 1-A, 40'; Site 2-A, 74'; Site 3-A, 50'

REMARKS:

#8 - 7 sta. 42 men
AWS 3 men
AAIS 3 men
SL 4 men
C3-OP 6 men
58 men

SECRET

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 133A

PLACE Gales Point

Town Manchester County Essex State Mass.

1. Installations to be located here:

Site 1-A: AAIS OP#14

B₁₆⁶S₁₆⁶ - Btry. #104

B₁₂⁷S₁₂⁷ - Btry. #105

B₁₅⁵S₁₅⁵ - Btry. #206

S/L - 28P and 29P

2. Number and type of structures to be constructed:

1 Windmill tower-type observing station, 3-story

3. Type of site: Open _____ Wooded X Hilly X Level _____

Lodge _____ Smooth _____ Obstructions to sight Houses and trees

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes

5. Proposed fire control cable hut Cable terminal

6. Nearest commercial electric power Adjacent

7. Delco type generator required? None

8. Housing facilities necessary 32 men

9. Sewer facilities Adjacent

10. Type of water supply: City Manchester Distance Adjacent

Well (estimated depth) None

11. Elevation of each construction site above mean low water 80'

REMARKS:

#8 - 3 sta. 18 men
AAIS 3 men
AWS 3 men
SL's 8 men
32 men

S E C R E T

Exhibit 2-I, Page 24 of 29 pages

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 134PLACE Coolidge PointTown Manchester County Essex State Mass.

1. Installations to be located here:

Site 1-A: AAIS OP#15

B⁷S⁷ - Long
5 5B⁵S⁵ - Gardner
14 14

S/L - 30P

2. Number and type of structures to be constructed:

1 steel tower-type observing station, 2-story

3. Type of site: Open _____ Wooded X Hilly X Level _____
Lodge _____ Smooth _____ Obstructions to sight Trees and Magnolia Point

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes5. Proposed fire control cable hut Cable terminal6. Nearest commercial electric power Adjacent7. Delco type generator required? None8. Housing facilities necessary 22 men9. Sewer facilities Yes10. Type of water supply: City Manchester Distance AdjacentWell (estimated depth) None11. Elevation of each construction site above mean low water 80'

REMARKS:

#8 -	2 sta.	12 men
	AAIS	3 men
	AWS	3 men
	SL	4 men
		<u>22 men</u>

SECRET

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 134A

PLACE Eastern Point

Town Gloucester County Essex State Mass.

1. Installations to be located here:

Site 1-A: AAIS OP#16

B₁₆⁷S₁₆⁷ - Btry. #104

B₁₂⁸S₁₂⁸ - Btry. #105

S/L - 31P

2. Number and type of structures to be constructed:

1 cottage-type observing station, 3-story

3. Type of site: Open _____ Wooded X Hilly X Level _____
Lodge _____ Smooth _____ Obstructions to sight None

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road None

5. Proposed fire control cable hut Cable terminal

6. Nearest commercial electric power 1 Mile

7. Delco type generator required? None

8. Housing facilities necessary 22 men

9. Sewer facilities None

10. Type of water supply: City None Distance 1/2 mile

Well (estimated depth) None

11. Elevation of each construction site above mean low water 20'

REMARKS:

#8 - 2 stations - 12 men
AAIS 3 men
AWS 3 men
SL 4 men
22 men

S E C R E T

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 135

PLACE Emerson Point

Town Rockport County Essex State Mass.

1. Installations to be located here:

Site 1-A: AAIS OP#17

B⁹₁₂S⁹₁₂ - Btry. #105

B⁸₁₆S⁸₁₆ - Btry. #104

C³₃-OP

S/L - 32P

2. Number and type of structures to be constructed:

1 cottage-type observing station, 3-story, to be constructed in an existing building.

3. Type of site: Open X Wooded _____ Hilly X Level _____

Lodge _____ Smooth _____ Obstructions to sight None

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes

5. Proposed fire control cable hut Cable terminal

6. Nearest commercial electric power Adjacent

7. Delco type generator required? None

8. Housing facilities necessary 28 men

9. Sewer facilities Adjacent

10. Type of water supply: City Rockport Distance Adjacent

Well (estimated depth) None

11. Elevation of each construction site above mean low water 60'

REMARKS:

#8 -	2 sta.	-	12 men
	C3-OP		6
	AAIS		3
	AWS		3
	SL		4
			<u>28 men</u>

S E C R E T

Exhibit 2-I, Page 27 of 29 pages

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 136

PLACE Halibut Point

Town Rockport County Essex State Mass.

1. Installations to be located here:

Site 1-A: AAIS OP#18

B₁₆⁹S₁₆⁹ - Btry. #104

B₂¹S₂¹ - H. D. of Portsmouth, Btry. #103

C₃⁴-OP

S/L - 33P and 34P

2. Number and type of structures to be constructed:

1 cottage-type observing station, 3-story

3. Type of site: Open X Wooded _____ Hilly X Level _____

Lodge X Smooth _____ Obstructions to sight House to right

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Yes - Private road

5. Proposed fire control cable hut Cable terminal

6. Nearest commercial electric power 1,000'

7. Delco type generator required? None

8. Housing facilities necessary 32 men

9. Sewer facilities City 1,000'

10. Type of water supply: City Rockport Distance 1000'

Well (estimated depth) None

11. Elevation of each construction site above mean low water 100'

REMARKS:

#8 -	2 sta.	- 12 men
	AAIS	3
	AWS	3
	C ₃ ⁴ -OP	6
	3	
	SL's	8
		32 men

S E C R E T

Exhibit 2-I, Page 28 of 29 pages

S E C R E T

Form #37, Annex I

H. D. of Boston

INFORMATION FOR DESIGN AND CONSTRUCTION OF INSTALLATIONS

LOCATION NO. 137

PLACE Castle Hill

Town Ipswich County Essex State Mass.

1. Installations to be located here:

Site 1-A: AAIS OP#1 - H. D. of Portsmouth

²S² - H. D. of Portsmouth, Btry. #103

²S²₁₀₁₀ - Btry. #104

S/L - 1P and 2P - H. D. of Portsmouth

2. Number and type of structures to be constructed:

1 cottage-type observing station, 2-story (land and structure charged to H. D. of Portsmouth).

3. Type of site: Open _____ Wooded X Hilly X Level _____
Lodge _____ Smooth _____ Obstructions to sight Trees on site only

UTILITIES INFORMATION - Give location and approximate distance to:

4. Approach road Exists ~~permission to use to be obtained~~

5. Proposed fire control cable hut Cable Terminal

6. Nearest commercial electric power 1/2 mile

7. Delco type generator required? None

8. Housing facilities necessary 26 men

9. Sewer facilities None

10. Type of water supply: City On Crane Estate Distance 200'

Well (estimated depth) None required

11. Elevation of each construction site above mean low water 125'

REMARKS:

8 - 12 men observers
8 men SL
3 men AAIS
3 men AWS
26 men

S E C R E T

Exhibit 2-I, Page 29 of 29 pages

S E C R E T

Form #38, Annex I

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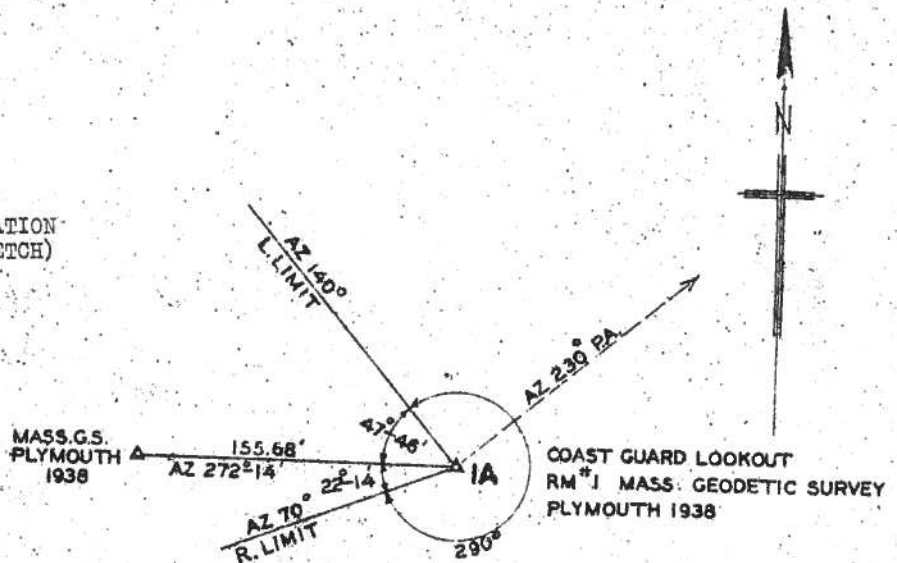
FIRE CONTROL INSTALLATIONS

Location No. 110

Place MANOMET POINT

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	2-story Cottage	Roof	AAIS-OP#1	-	-	-
		Upper	B ¹ ₁ S ¹ ₁	Constr. #106, 2-16"	100'	DPP
		Lower	C ¹ ₁ -OP	C ₁	92'	AI

(LOCATION SKETCH)



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Form #38, Annex I

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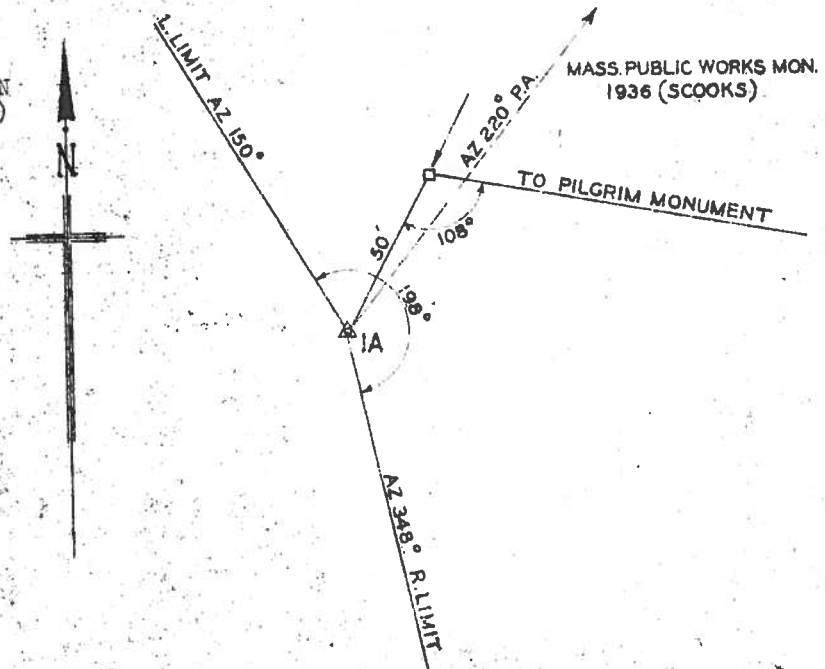
FIRE CONTROL INSTALLATIONS

Location No. 111

Place GURNET POINT

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	1-story Cottage	Roof	AAIS-OP#2			
		Rear	B ₂ ¹ S ₂ ¹	Constr. #208, 2-6"	84'	DPT
		Front	B ₁ ² S ₁ ²	Constr. #106, 2-16"	81'	AI

(LOCATION SKETCH)



SECRET

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Form #38, Annex I

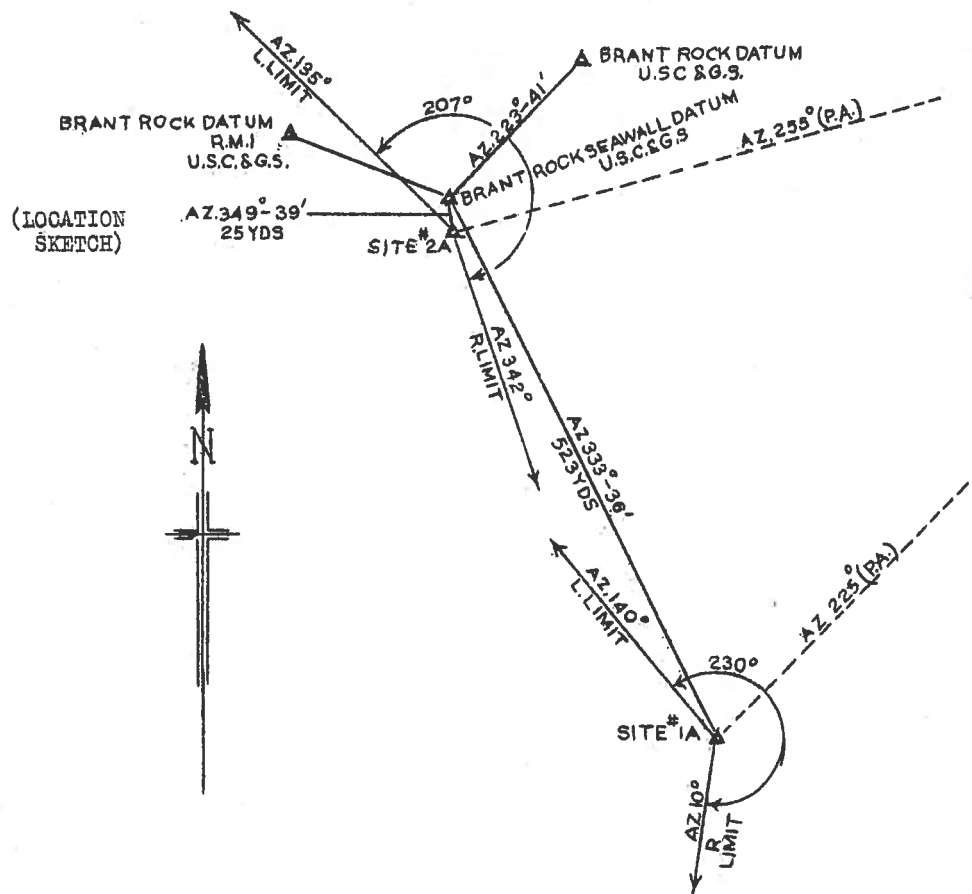
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FIRE CONTROL INSTALLATIONS

Location No. 112

Place BRANT ROCK

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	2-story Steel Tower	Roof	AAIS-OP#3			
		Upper	B ₁₂ S ₁₂ ^{1 1}	Constr. #105, 2-16"	105'	DPF
		Lower	B ₂ S ₂ ^{2 2}	Constr. #208, 2-6"	97'	DPF
2-A	2-story Steel Tower	Upper	B ₅ S ₅ ^{1 1}	Battery Long	85'	DPF
		Lower	B ₃ S ₃ ^{3 3} 1 1	Constr. #106, 2-16"	77'	AI



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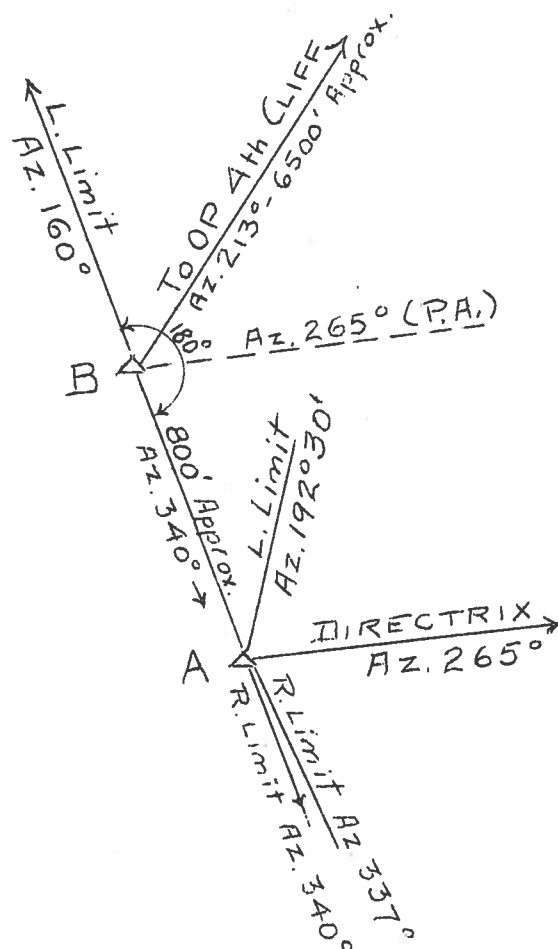
FIRE CONTROL INSTALLATIONS

Location No. 113

Place FLOWERS HILL

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Battery #1	-	-	Constr. #106, 2-16"	-	-
1-B	Steel Tower, windmill type	Floor	BC ₁	Constr. #106, 2-16"	110 ¹	DPF

(LOCATION SKETCH)



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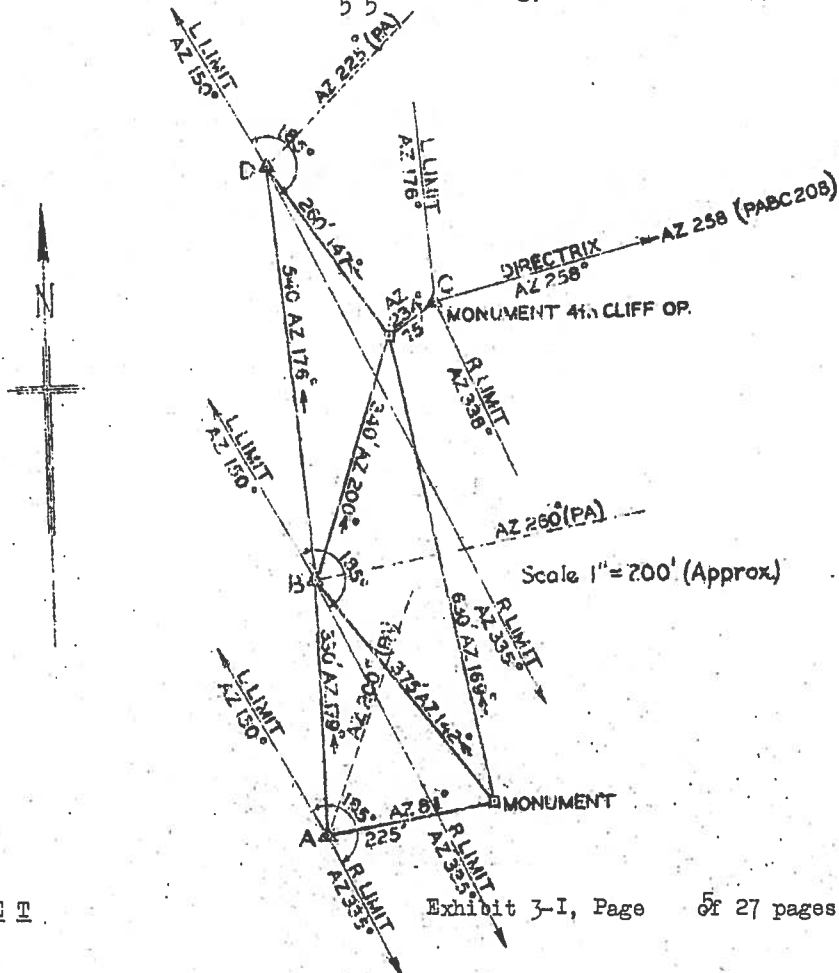
FIRE CONTROL INSTALLATIONS

Location No. 114

Place FOURTH CLIFF

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	3-story Cottage	Roof	AAIS-OP#4	-	-	-
		Upper	1 1			
		Rt.	B ₁₁ S ₁₁	Constr.#209, 2-6"	85'	DPF
		Upper	1 1			
		Lf.	B ₁₆ S ₁₆	Constr.#104, 2-16"	85'	DPF
		Middle	G ₁ -OP	G1	77'	DPF
1-B	3-story Cottage	Lower	G ₁ -CP	Long, #106	-	-
		Upper	BC2	Constr.#208, 2-6"	85'	DPF
		Middle	B ₁₂ S ₁₂	Constr.#105, 2-16"	77'	DPF
		Lower	Qtrs.	-	-	-
1-C	Battery #2	-	-	Constr.#208, 2-6" BC	-	-
1-D	3-story Cottage	Upper	4 4			
		Upper	B ₁ S ₁	Constr.#106, 2-16"	75'	DPF
		Middle	B ₃ S ₃	Constr.#208, 2-6"	67'	AI
		Lower	B ₅ S ₅	Long, 2-16"	59'	AI

(LOCATION SKETCH)



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Form #38, Annex I

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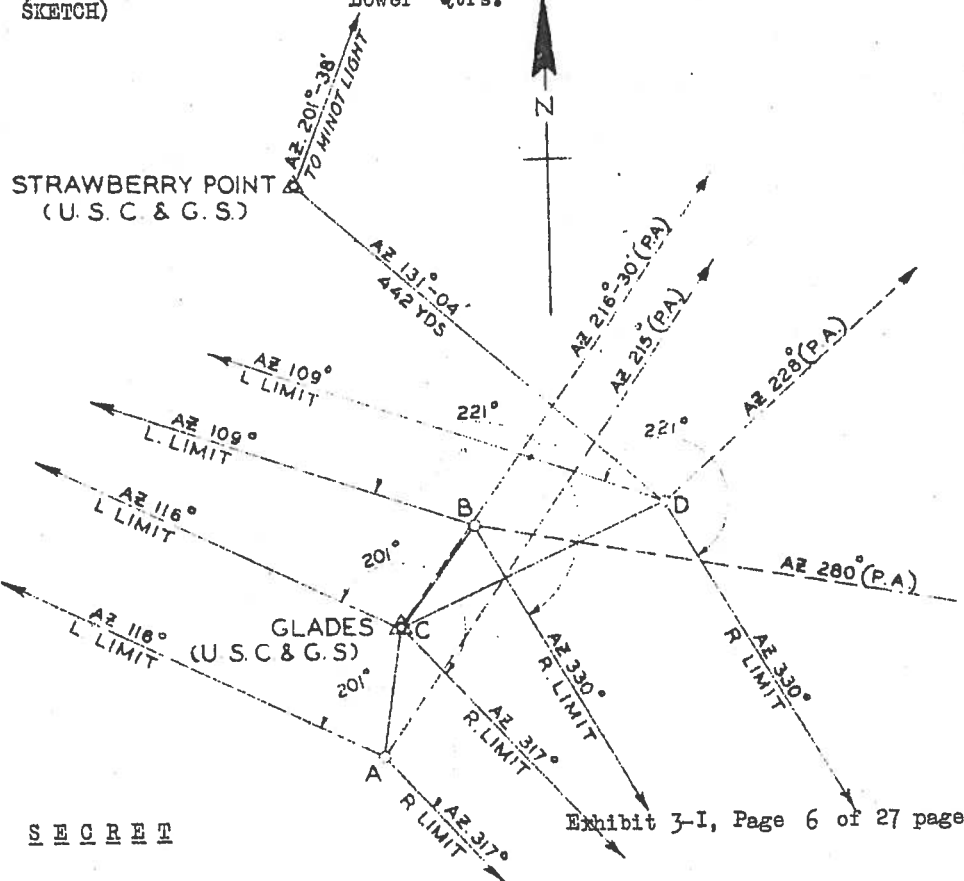
FIRE CONTROL INSTALLATIONS

Location No. 115

Place STRAWBERRY POINT

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	3-story Steel Tower	Roof	AAIS-OP#5	-	-	-
		Upper	B ₁₅ S ₁₅ ¹	Const.#206, 2-6"	121'	DPF
		Middle	B ₁₃ S ₁₃ ¹	Const.#207, 2-6"	113'	DPF
		Lower	B ₁₁ S ₁₁ ⁵	Const.#106, 2-16"	105'	DPF
1-B	3-story Cottage	Upper	B ₂ S ₂ ⁴	Const.#208, 2-16"	70'	DPF
		Middle Rt.	B ₁₂ S ₁₂ ³	Const.#105, 2-6"	65'	AI
		Middle Lf.	G ₂ -OP	G2	65'	AI
		Lower	G ₂ -CP	Batteries 208-9	-	-
1-C	2-story Steel Tower (existing)	Upper	B ₅ S ₅ ³	Long, 2-16"	93'	DPF
		Lower	B ₁₄ S ₁₄ ¹	Gardiner, 2-12"	85'	DPF
1-D	3-story Cottage	Upper	B ₁₆ S ₁₆ ²	Const.#104, 2-16"	45'	AI
		Middle Rt.	C ₁ -OP	C1	40'	AI
		Middle Lf.	B ₁₁ S ₁₁ ²	Const.#209, 2-6"	40'	AI
		Lower	Qtrs.	-	-	-

(LOCATION SKETCH)



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Form #38, Annex I

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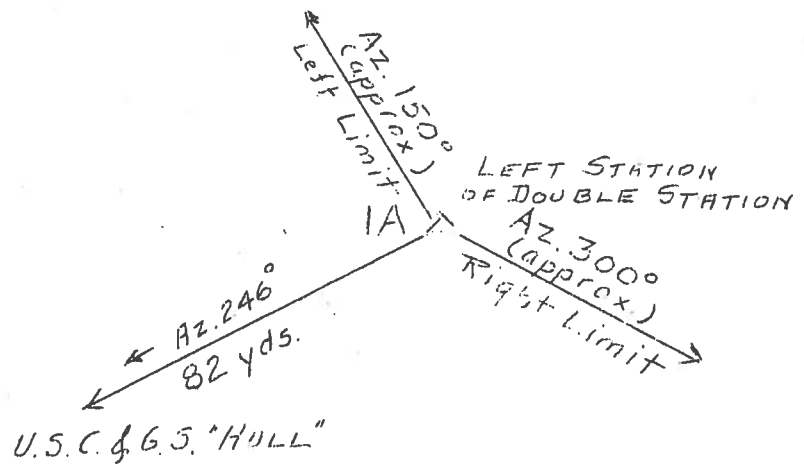
FIRE CONTROL INSTALLATIONS

Location No. 116

Place STRAWBERRY HILL

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Concrete observing station (existing)	Roof	AAIS-OP6	-	-	-
		1 Floor	1 1			
		Left	BS 10	Whipple, 2-6", BC (S)	106.2	DPF

(LOCATION SKETCH)



Scale 1" = 30 yds.

S E C R E T

S E C R E T

Form #38, Annex I

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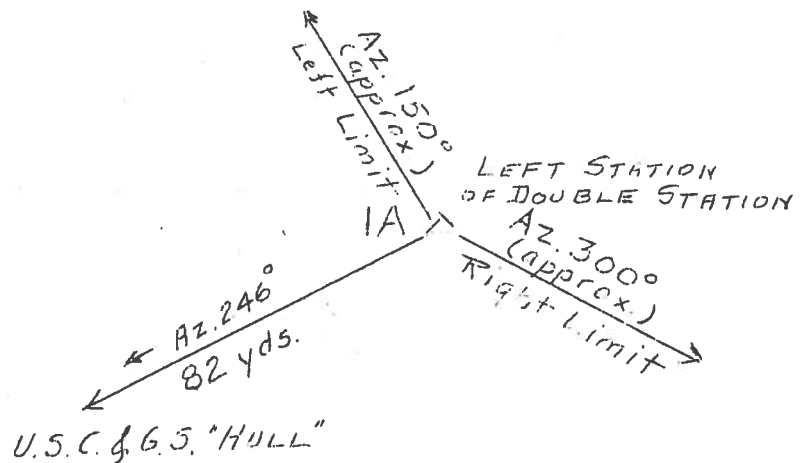
FIRE CONTROL INSTALLATIONS

Location No. 116

Place STRAWBERRY HILL

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Concrete observing station (existing)	Roof	AAIS-OP6	-	-	-
		1 Floor	1 1			
		Left	BS 10	Whipple, 2-6", BC (S)	106.2	DPF

(LOCATION SKETCH)



Scale 1" = 30 yds.

S E C R E T

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Form #38, Annex I

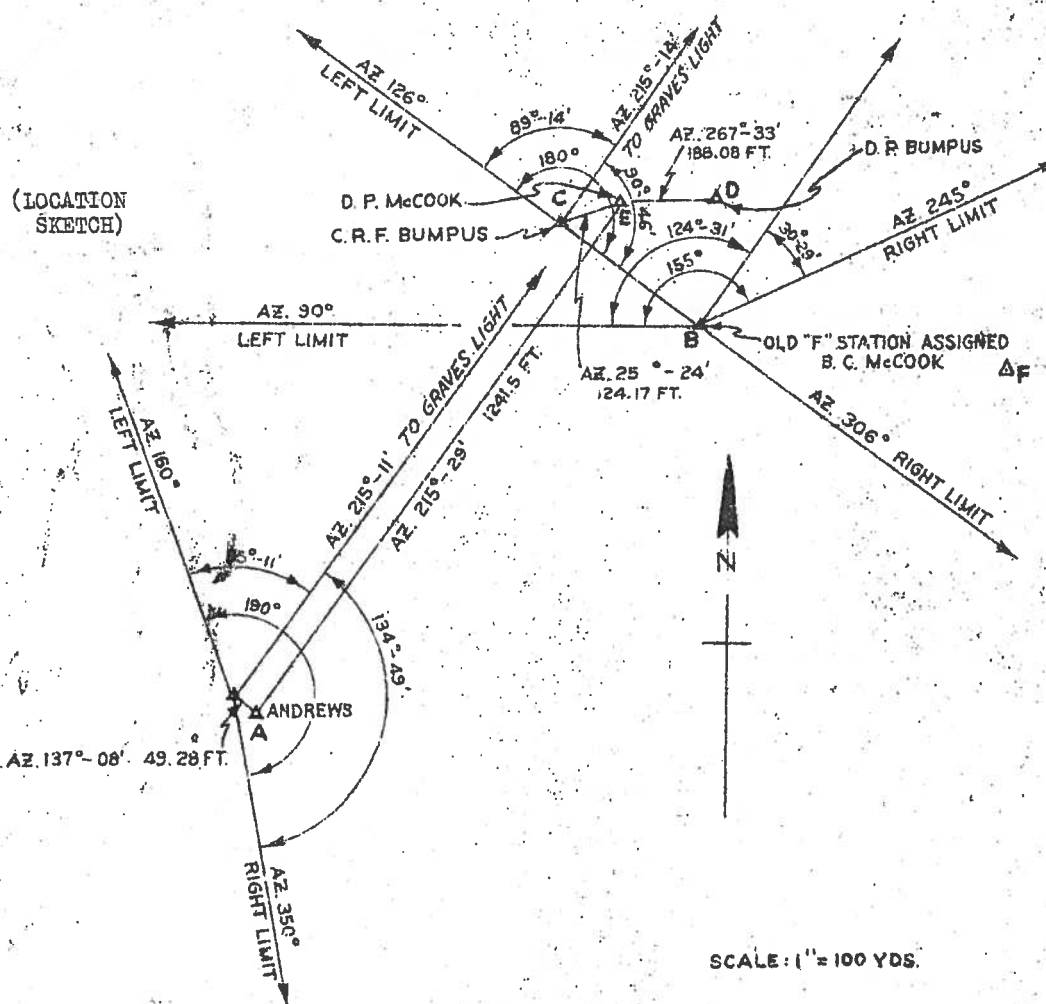
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FIRE CONTROL INSTALLATIONS

Location No. 117

Place FORT ANDREWS

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Stucco observing station (existing)	Upper	B ₄ S ₄ ¹	McCook 2-6"(S)	130.1'	DPT
1-B	Brick observing station (existing)	Upper	BC ₄	McCook 2-6"	114.0'	DPT
		Lower	Plotting Rm.	McCook 2-6"	-	-
1-C	Concrete observing station (existing)	Floor	CRF ₃ BC ₃	Bumpus 2-3"	115.0'	CRF & AI
1-D	Battery #3	-	-	Bumpus 2-3"(S)	-	-
1-E	Battery #4	-	-	McCook 2-6"(S)	-	-
1-F	Fixed S.L. #15	-	-	-	-	-
1-G	BB Switchboard	-	-	Fire Control	-	-



S E C R E T

S E C R E T

Form #38, Annex I

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FIRE CONTROL INSTALLATIONS

Location No. 118

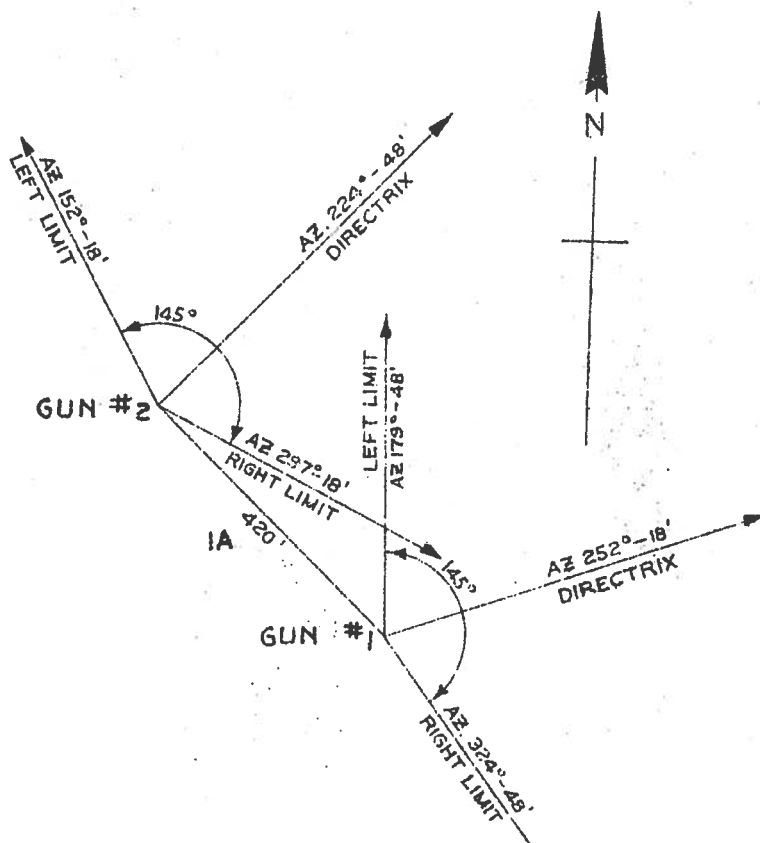
Place FORT DUVAL

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
----------	------	-------	---------------------	-------------------------------------	-----------------	---------------

1-A Btry. #5
Swb. & PR

Long 2-16"
BC(C)

(LOCATION
SKETCH)



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S E C R E T

Form #38, Annex I

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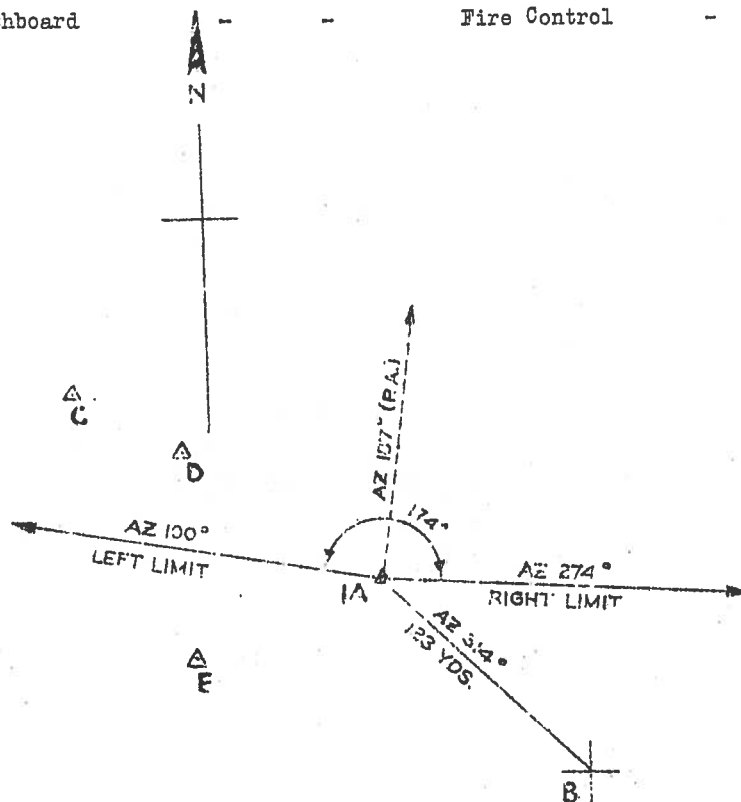
FIRE CONTROL INSTALLATIONS

Location No. 119

Place FORT REVERE

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Frame observing station (existing)	Right	M ₁ R	M1	120'	DPT
		Left	M ₁ L		120'	DPT
1-B	AA Battery	-	AA No. 1	-	-	-
1-C	Fixed S. L. #14	-	-	-	-	-
1-E	BB Switchboard	-	-	Fire Control	-	-

(LOCATION SKETCH)



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Form #38, Annex I

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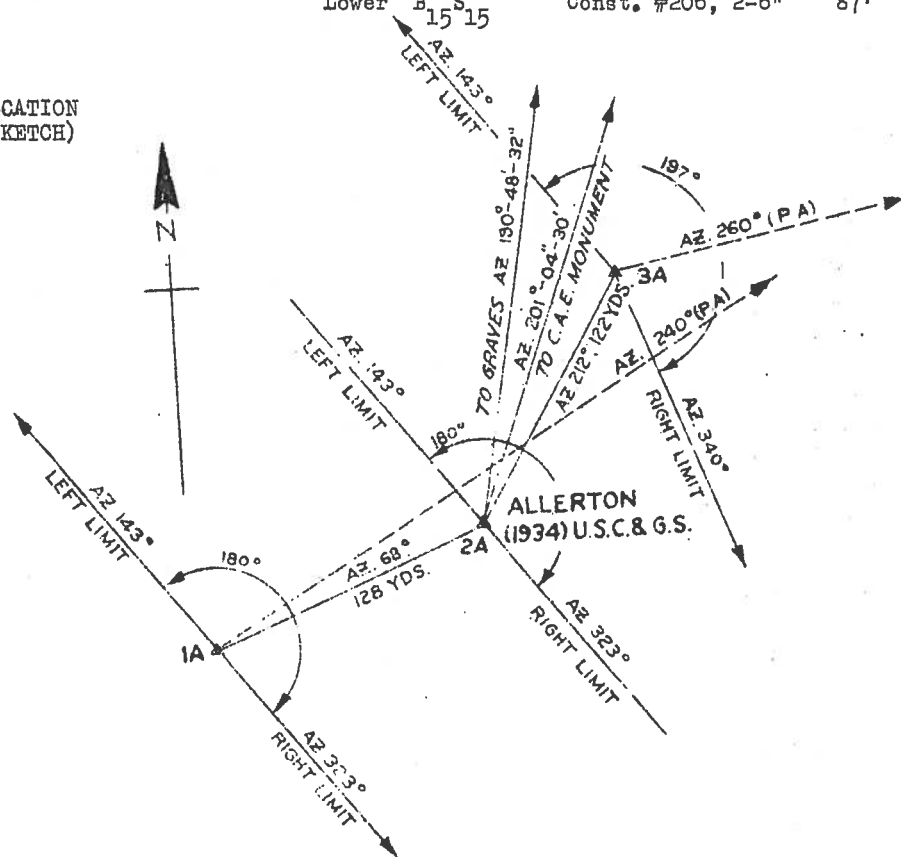
FIRE CONTROL INSTALLATIONS

Location No. 120

Place POINT ALLERTON

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	2-story Cupola-type steel tower	Roof	AAIS-OP7	-	-	-
		Upper	B ₃ S ₃	Const.#104, 2-16"	173'	DPF
		Lower	B ₁₆ S ₁₆			
		Lf.	B ₁₁ S ₁₁	Const.#209, 2-6"	165'	DPF
		Lower Rt.	B ₁₃ S ₁₃	Const.#207, 2- 6"	165'	DPF
2-A	3-story Cottage (existing)	Upper	B ₁₄ S ₁₄	Gardner, 2-12"	132'	DPF
		Middle				
		Lf.	BC5	Long, 2-16"	126.4'	DPF
		Middle				
		Rt.	C ₁ -OP	South Gmpt	126.4'	DPF
		Lower	B ₄ S ₄	Long, 2-16"	118'	DPF
		Lower	B ₅ S ₅			
3-A	2-story Cottage	Upper	B ₁₂ S ₁₂	Const.#105, 2-16"	95'	AI
		Lower	B ₁₅ S ₁₅	Const. #206, 2-6"	87'	AI

(LOCATION SKETCH)



S E C R E T

S E C R E T

Form #38, Annex I

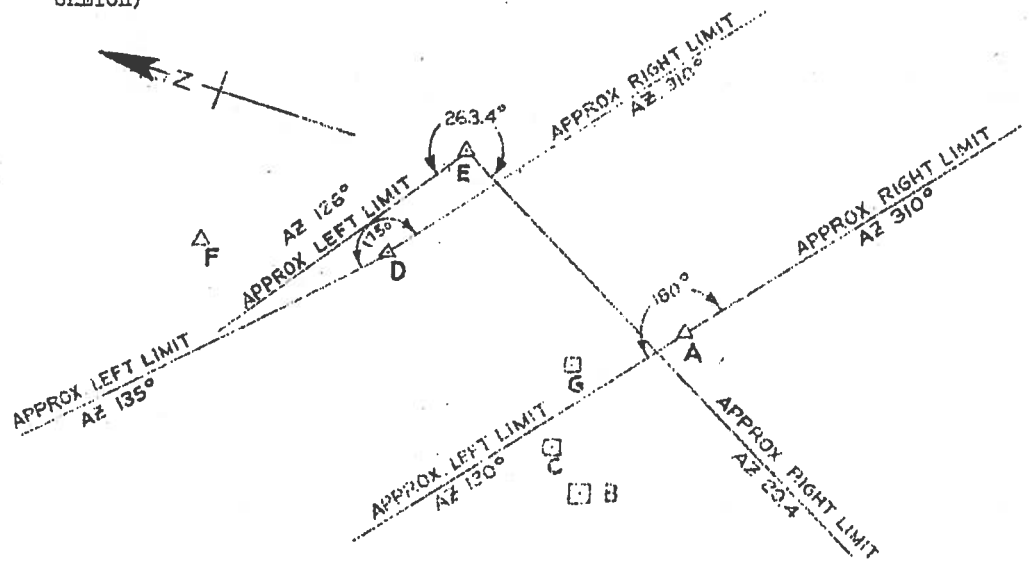
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FIRE CONTROL INSTALLATIONS

Location No. 121

Place FORT WARREN

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Concrete observing station (existing)	Rear Front	MG ₁ -CP MG ₁ -OP	- MG ₁	- 74.7'	- AI
1-C	Mine casemate (existing)	-	-	M ¹ -	-	-
1-D	2-story Brick observing station (existing)	Roof Upper Middle Gallery	AAIS-OP8 SD-OP C ₂ -OP Seaward Defense Com. Post C ₂ -CP	- C ₁ C ₂ C ₃ C ₂ C ₁ -C ₂ -C ₃ C ₂	- 86' 77.9' - -	- AI AI - -
1-E	Brick observing station & plotting rm. (existing)	Upper Rt. Upper Lf. Lower	M ₁ ¹ M ₁ -CP-OP Plotting Rm. M ₁	M ₁ M ₁ M ₁	69.6' 69.6' -	DPF DPF -
1-F	Fixed S.L. #18	-	-	-	-	-
1-G	DB Switchboard (LOCATION SKETCH)	-	-	Fire control (existing)	-	-



S E C R E T

S E C R E T

Form #38, Annex I

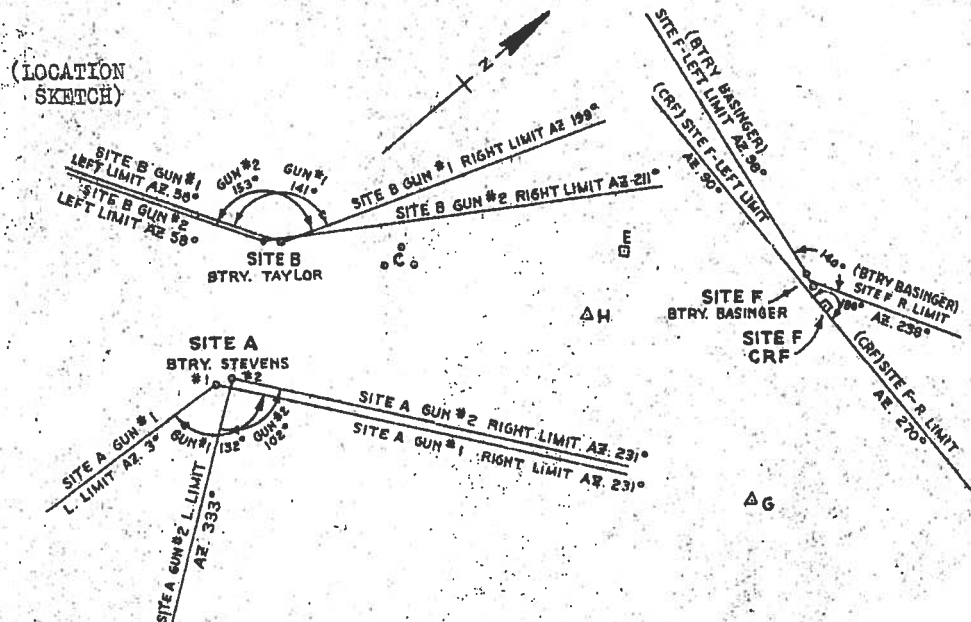
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FIRE CONTROL INSTALLATIONS

Location No. 122

Place FORT STRONG..

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A. Btry. #6 Parapet		-	CRF-6 & BC6	Stevens 2-3" BC(S) Stevens 2-3" BC(S)	24'	CRF&AI
1-B Btry. #8 Platform		-	CRF-8 & BC8	Taylor 2-3" BC(S) Taylor 2-3" BC(S)	38'	CRF&AI
1-C. AA Btry. #3		-	-	-	-	-
1-E Mine casemate		-	-	M2	-	-
1-F Btry. #7 Crow nest		-	CRF-7 & BC7	Basinger 2-3" BC(S) Basinger 2-3" BC(S)	34'	CRF&AI
1-G Fixed S.L. #19		-	-	-	-	-
1-H. BB Switchboard		-	-	Fire Control	-	-



S E C R E T

S E C R E T

Form #38, Annex I

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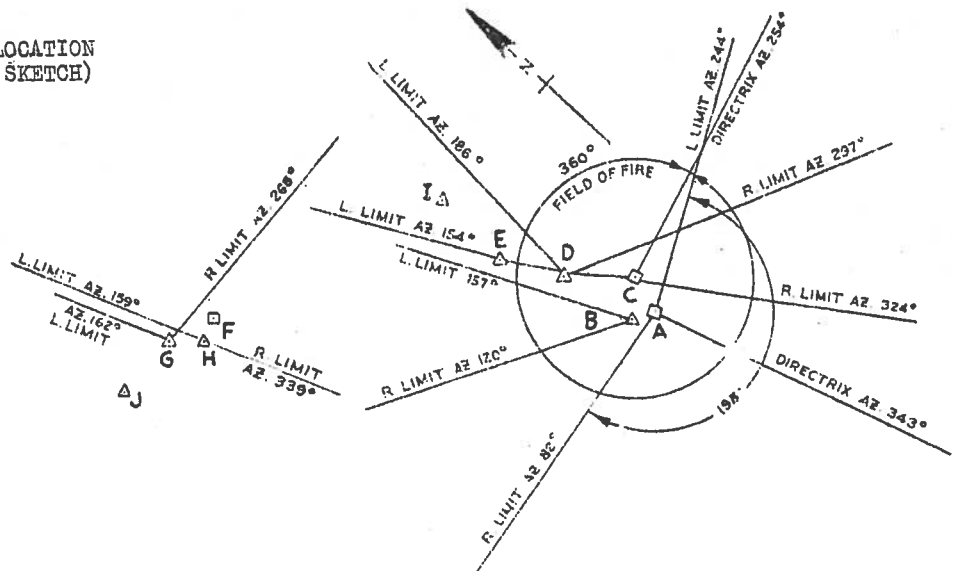
FIRE CONTROL INSTALLATIONS

Location No. 123

Place FORT STANDISH

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Battery #9	-	-	Williams 3-3" BC(S)	-	-
1-B	Platform	-	CRF ₉ & BC ₉	Williams Btry. #9	35'	CRF & AI
1-C	Battery #10	-	-	Whipple 2-6" BC(S)	-	-
1-D	Concrete observing station (existing)	-	CRF ₁₀	Whipple Btry. #10	17'	CRF
1-E	Stucco observing station (existing)	Left	B ₁₀ ² S ₁₀ ²	Whipple Btry. #10	31.8'	AI
		Right	Unassigned	-	-	-
1-F	A.A. #2 Battery	-	-	-	-	-
1-G	Stucco observing station (existing)	Right	M ₂ ² R	Mine Command #2	50.2'	DPF
		Left	M ₂ ² L	Mine Command #2	50.2'	DPF
		Rear	Plotting Rm.	Mine Command #2	-	DPF
		Floor Rear	M2-CP	M2	-	-
1-H	1-story Stucco (existing)	Front	BC ₁₀	Whipple Btry. #10	50'	AI
		Rear	P.R.(Btry10)	2-6" BC	-	-
1-I	Fixed S. L. #20	-	-	-	-	-
1-J	BB Switchboard	-	-	Fire Control	-	-

(LOCATION SKETCH)



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S E C R E F

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H. D. of Boston

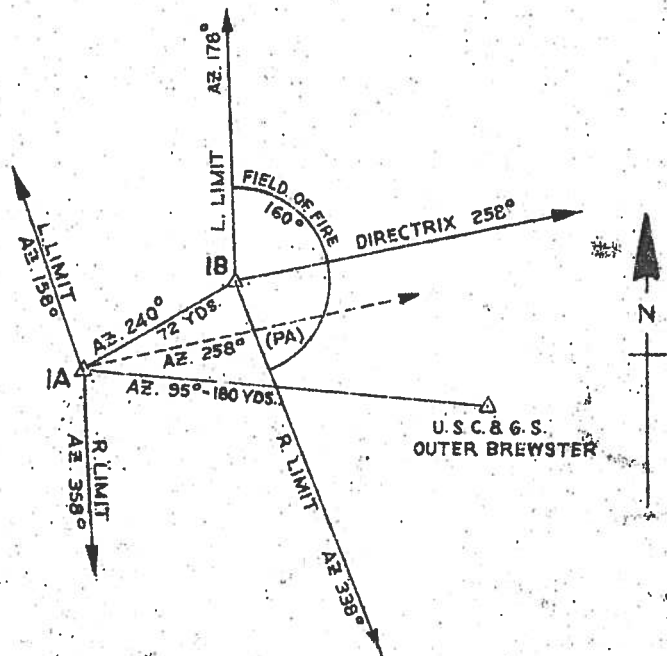
FIRE CONTROL INSTALLATIONS

Location No. 126

Place OUTER BREWSTER

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Concrete observing station, 2-story	Roof Upper	AAIS-OP9 B 4S 4 11 11	Const. #209, 2-6"	100'	DPF
		Lower	BC11	Const. #209, 2-6"	92'	AI
1-B	Battery #11	-	-	Const. #209, 2-6" BC(S)	-	-

(LOCATION
SKETCH)



S E C R E T

S E C R E T

Form #38, Annex I

H. D. of Boston

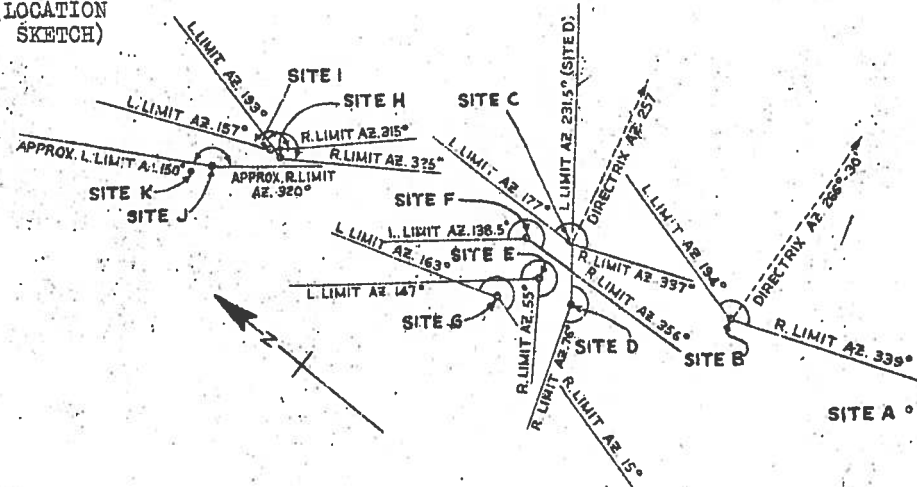
FIRE CONTROL INSTALLATIONS

Location No. 127

Place FORT DAVES

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Fixed S. L. #21	-	-	-	-	-
1-B	Battery #12	-	-	Const.#105, 2-16"BC	-	-
1-C	Battery #13	-	-	Const.#207, 2-6"BC	-	-
1-D	Concrete manhole	Floor	B ² S ² _{4 4}	McCook 2-6" BC	88'	AI
1-E	Concrete manhole	Floor	BC ₁₂	Const.#105, 2-16"BC	95'	DPF
1-F	Concrete manhole	Floor	B ³ S ³ _{13 13}	Const.#207, 2-6"BC	88'	AI
1-G	1-story Concrete	Roof	AAIS-OP10	-	-	-
		Floor	BC ₁₃	Const.#207, 2-6"BC	110'	DPF
1-H	1-story Concrete	Right	M ¹ R ₂	MG2	58'	DPF
		Left	M ¹ L ₂	MG2	58'	DPF
1-I	1-story Stucco	Right	CL-OP ₃	C3	58'	DPF
		Center	MG2-CP-OP	MG2	58'	DPF
		Left	B ³ S ³ _{10 10}	Whipple 2-6" BC	58'	DPF
1-J	2-story Stucco	Upper	HECP	-	90'	AI
1-K	Fixed S. L. #22	-	-	-	-	-

(LOCATION SKETCH)



S E C R E T

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Form #38, Annex I

H. D. of Boston

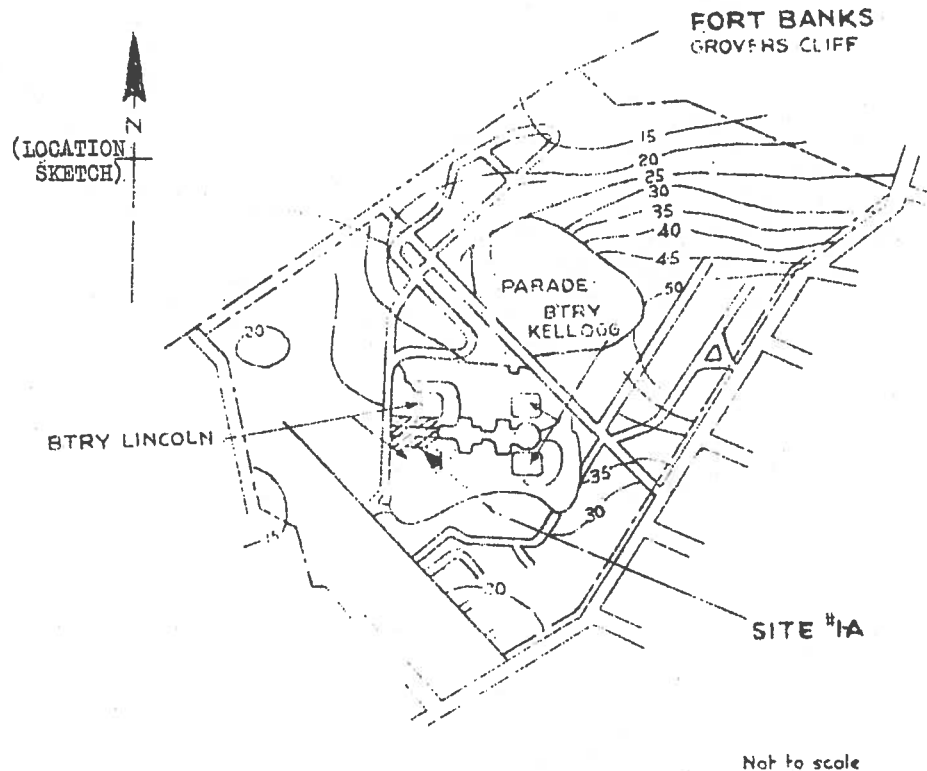
FIRE CONTROL INSTALLATIONS

Location No. 128

Place FORT BANKS

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
----------	------	-------	---------------------	-------------------------------------	-----------------	---------------

1-A	Heavy splinter-proof gallery	Floor H (CP)	H.D. Command Post Boston Sub-sector CP Fire Control and Post Switchboard Radio AACP Message Center	-	-
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S E C R E T

Form #38, Annex I

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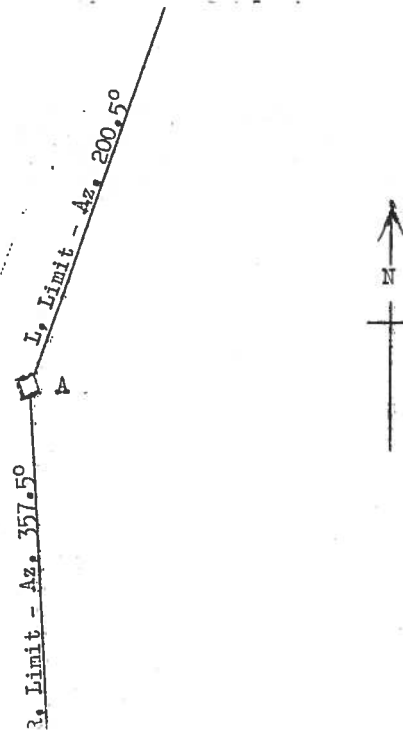
FIRE CONTROL INSTALLATIONS

Location No. 129

Place FORT PEATH

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	1-story Concrete observing station (existing)	Roof	AAIS-OP11	-	-	-
		Front	B ₄ S ₄ ³³	McCook 2- 6"	80'	DPF
		Rear	Unassigned			

(LOCATION SKETCH)



S E C R E T

S E C R E T

Form #38, Annex I

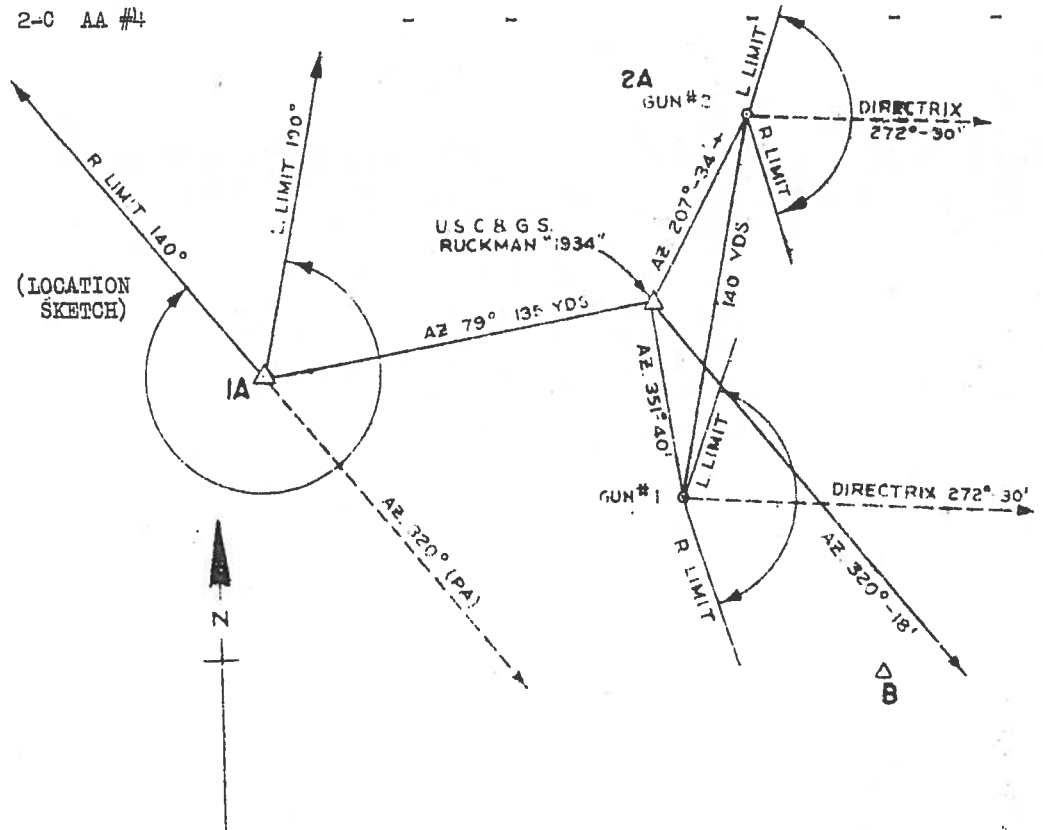
H. D. of Boston

FIRE CONTROL INSTALLATIONS

Location No. 130

Place FORT BUCKMAN

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	3-story cottage observing station	Upper	BC ₁₄	Gardiner, 2-12" BC	120'	DPF
		Middle	B ₄ S ₄	McCook, 2-6" BC	112'	DPF
		Rt.	B ₄ S ₄			
		Middle	B ₄ S ₄	Whipple, 2-6" BC	112'	DPF
		Lf.	B ₁₀ S ₁₀			
		Lower	C3-CP	C3	-	-
2-A	Battery #14	-	-	Gardiner 2-12", BC-C (LR)	-	-
2-B	Fixed S. L. #23	-	-	-	-	-
2-C	AA #4	-	-	-	-	-

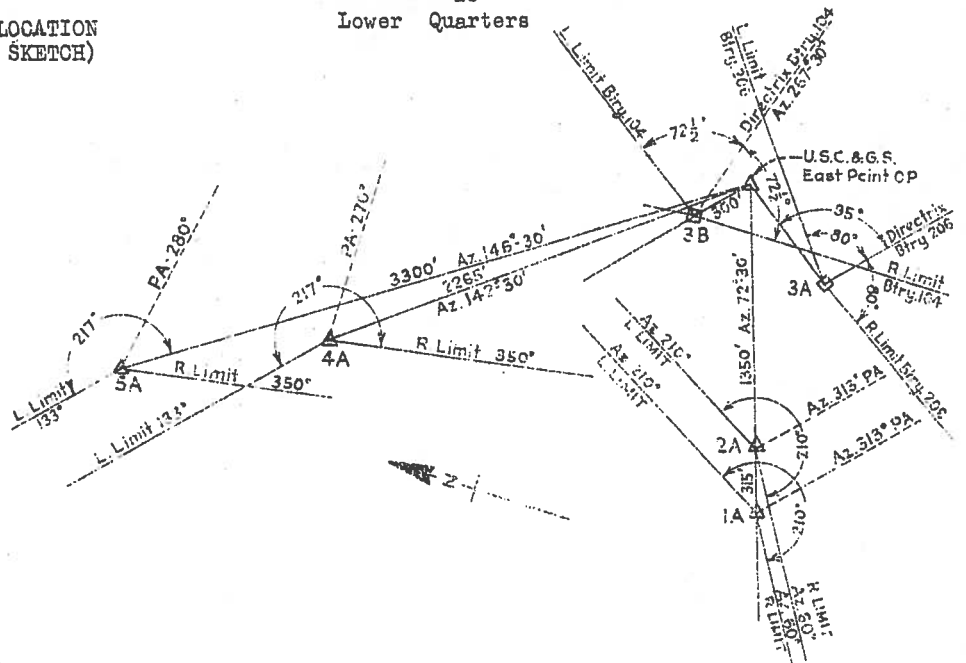


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Place EAST POINT, NAHANT

(LOCATION
SKETCH)



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Form #38, Annex I

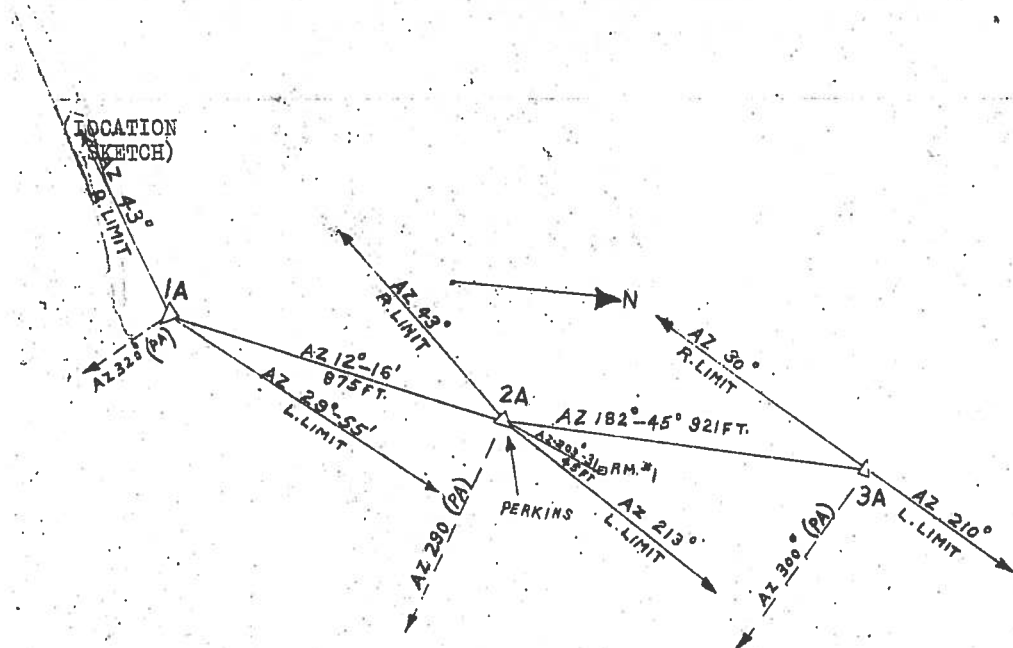
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FIRE CONTROL INSTALLATIONS

Location No. 132

Place MARBLEHEAD NECK

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	3-story Cottage	Upper	B 6 ^S 6 ^S 11 11	Const.#209, 2-6"	75'	DPF
		Middle	B 4 ^S 4 ^S 15 15	Const.#206, 2-6"	67'	AI
		Lower	B 5 ^S 5 ^S 16 16	Const.#104, 2-16"	59'	AI
2-A	2-story Cottage	Roof	AAIS-OP13	-	-	-
		Upper	B 6 ^S 6 ^S 5 5	Long, 2-16"	101'	DPF
		Lower	B 4 ^S 4 ^S 14 14	Gardiner, 2-12"	93'	DPF
3-A	3-story Cottage	Upper	B 5 ^S 5 ^S 13 13	Const.#207, 2-6"	85'	DPF
		Middle	B 6 ^S 6 ^S 12 12	Const.#105, 2-16"	77'	AI
		Lower	C 2 ^S 2 ^S -OP	G3 and G4	69'	AI



S E C R E T

S E C R E T

Form #38, Annex I

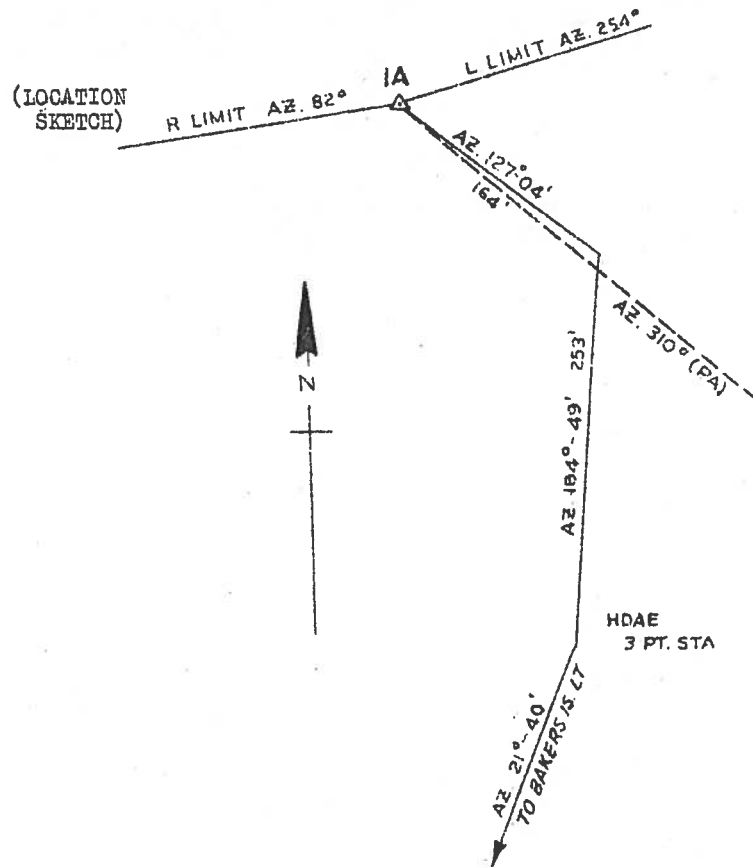
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FIRE CONTROL INSTALLATIONS

Location No. 133-A

Place GALES POINT

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	3-story windmill tower	Roof	AAIS-OP#14	-	-	-
		Upper	B ⁶ ₁₆ S ⁶ ₁₆	Const.#104, 2-16"	136'	DPF
		Middle	B ⁷ ₁₂ S ⁷ ₁₂	Const.#105, 2-16"	128'	DPF
		Lower	B ⁵ ₁₅ S ⁵ ₁₅	Const.#206, 2-6"	120'	DPF



S E C R E T

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Form #38, Annex I

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FIRE CONTROL INSTALLATIONS

Location No. 134

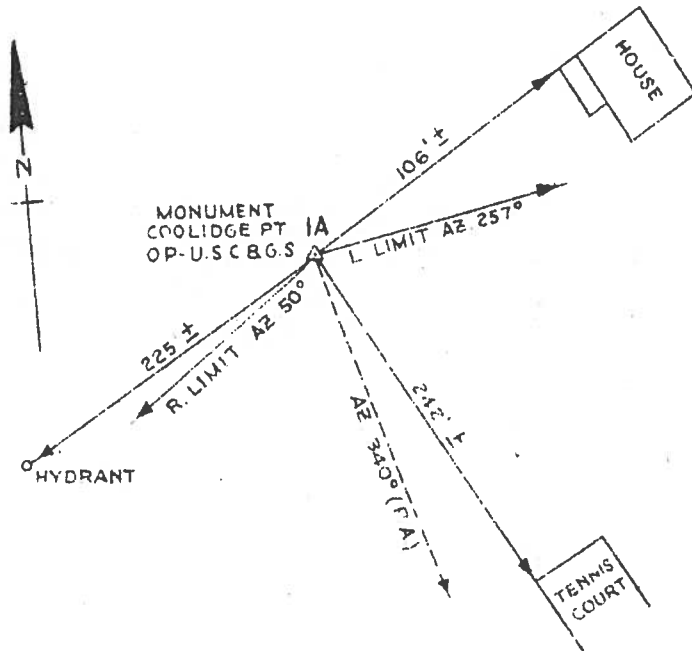
Place COOLIDGE POINT

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
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1-A	2-story Steel tower	Roof	AAIS-OP15			
		Upper	B ⁷ ₅ S ⁷ ₅	Long, 2-16"	110'	DPF
		Lower	B ⁵ ₁₄ S ⁵ ₁₄	Gardiner, 2-12"	102'	DPF

Note.- Approved 8th Ind., letter HQ:HFCD, file 660.2, dated February 25, 1941,
Subject: Augmented Expenditure Program, Harbor Defenses of Boston.

(LOCATION SKETCH)



S E C R E T

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Form #38, Annex I

H. D. of Boston

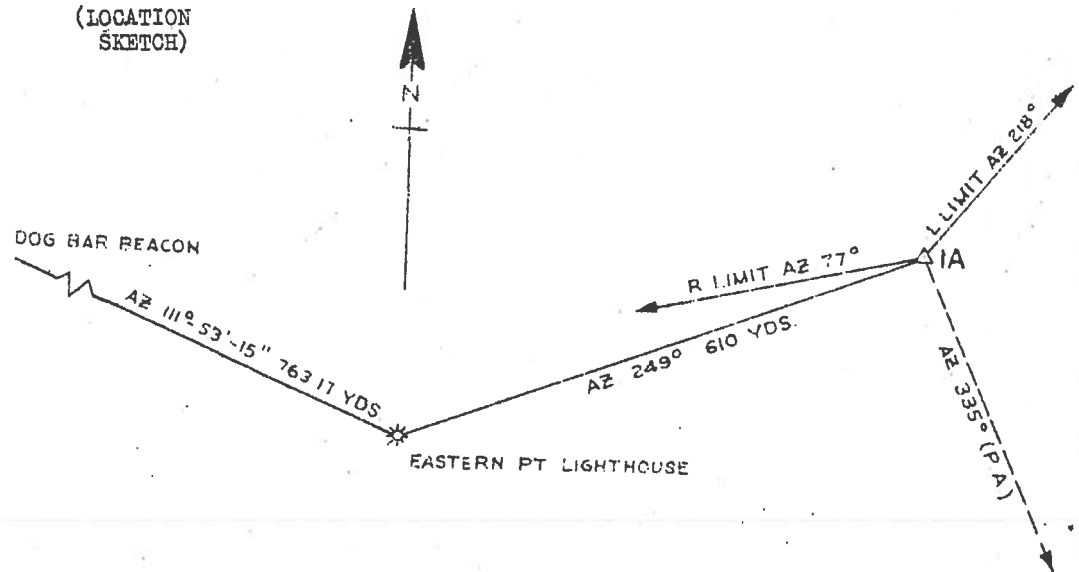
FIRE CONTROL INSTALLATIONS

Location No. 134-A

Place EASTERN POINT

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	3-story Cottage	Roof	AAIS-OP16	-	-	-
		Upper	B ⁷ ₁₆ S ⁷ ₁₆	Const.#104, 2-16"	60'	AI
		Middle	B ⁸ ₁₂ S ⁸ ₁₂	Const.#105, 2-16"	52'	AI
		Lower	Quarters			

(LOCATION SKETCH)



S E C R E T

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Form #38, Annex I

H. D. of Boston

FIRE CONTROL INSTALLATIONS

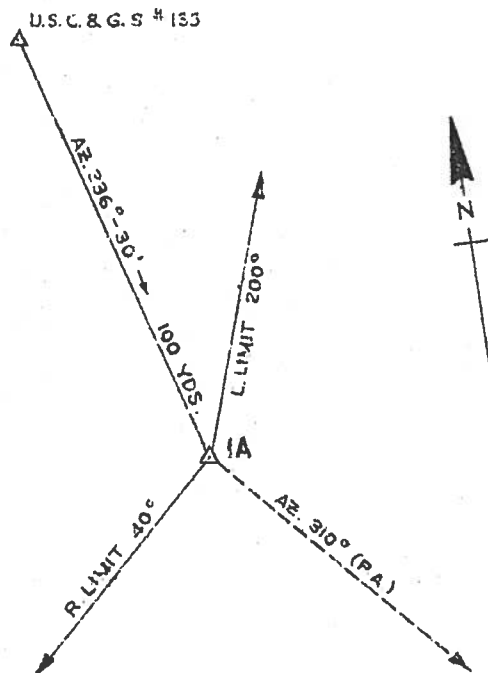
Location No. 135

Place EMERSON POINT

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
----------	------	-------	---------------------	-------------------------------------	-----------------	---------------

1-A	3-story Cottage	Roof	AAIS-OP17	-	-	-
		Upper	B ₁₂ ⁹ S ₁₂ ⁹	Const.#105, 2-16"	105'	DPF
		Middle	B ₁₆ ⁸ S ₁₆ ⁸	Const.#104, 2-16"	97'	DPF
		Lower	C ₃ ³ -OP	C3	89'	AI

(LOCATION
SKETCH)



S E C R E T

S E C R E T

Form #38, Annex I

H. D. of Boston

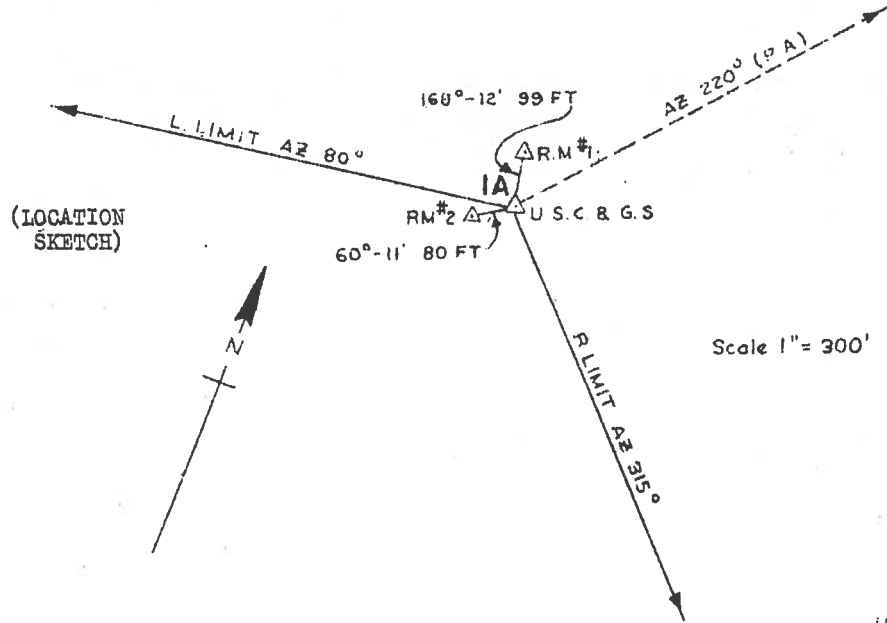
FIRE CONTROL INSTALLATIONS

Location No. 136

Place HALIBUT POINT

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
1-A	Cottage-type observ- ing station	Roof	AAIS-OP18	-	-	-
		Upper	B ₁₆ ⁹ S ₁₆ ⁹	Const.#104, 2-16"	130'	DPF
		*Middle	B ₁₆ ¹ S ₁₆ ¹	Const.#103, 2-16"	122'	DPF
		Lower	C ₃ ² -OP	C3	114'	AI

*H. D. Portsmouth



S E C R E T

S E C R E T

Form #38, Annex I

H. D. of Boston

FIRE CONTROL INSTALLATIONS

Location No. 137

Place CASTLE HILL

Site No.	Type	Floor	Station Assignments	Designation of Battery and Armament	Height of Inst.	Type of Inst.
----------	------	-------	---------------------	-------------------------------------	-----------------	---------------

1-A 2-story Cottage

*Roof AAIS-OP1

*Upper B²S²
Left 2 2

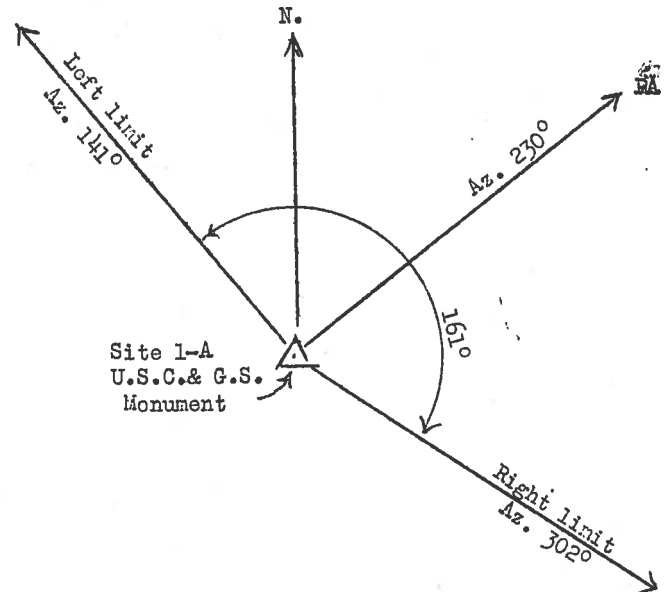
Const.#103, 2-16" 150' DPF

Upper B¹⁰S¹⁰
Right 16 16

Const.#104, 2-16" 150' DPF

*H. D. Portsmouth

(LOCATION
SKETCH)



S E C R E T

ANNEX J

INDEX AND SUMMARY BY LOCATION

S E C R E T

HARBOR DEFENSES OF BOSTON

EXHIBITS - ANNEX J

EXHIBIT

CONTENTS

1-J Index and Summary by Location (Form #39)

S E C R E T

S E C R E T

Form #39, Annex J.

H. D. of Boston

INDEX AND SUMMARY

- By Location -

Pri- ority:	Item No.	Loca- tion No.	Site No.	Type of Structure and Purpose	Aerial: Protec- tion	Gas: Proof: ing	Exhi- bit
3	110	1A		<u>Manomet Point</u> 2 story Cottage Roof-AAIS-OP1 Upper- B ₁ ¹ S ₁ ¹ Lower- C ₁ ¹ OP	SB	N	1-I-1
2	111	1A		<u>Gurnet Point</u> 1 story cottage Roof-AAIS-OP2 & C.G. Rear B ₂ ¹ S ₂ ¹ Front B ₁ ² S ₁ ²	SB	N	1-I-2
2	112	1A		<u>Brant Rock</u> 2 story steel tower Roof-AAIS OP-3 Upper- B ₁₂ ¹ S ₁₂ ¹ Lower- B ₂ ² S ₂ ²	SB	N	1-I-3
1		2A		2 story steel tower Upper- B ₃ ⁵ S ₃ ⁵ Lower- B ₁ ³ S ₁ ³	SB	N	1-I-3
3	113	1A		<u>Flowers Hill</u> Battery No. 1 (Const. #106) 2-16" BC	SB	Y	1-I-4
3		1B		1 story steel tower farm windmill type Floor -BC ₁	SB	N	1-I-4
3		1C		Bombproof Magazine			
2	114	1A		<u>Fourth Cliff</u> 3 story cottage Roof-AAIS OP-4 Upper- B ₁ ¹ S ₁ ¹ right 11 11 left B ₁₆ ¹ S ₁₆ ¹ Middle - G ₁ - OP Lower - G ₁ - CP	SB	N	1-I-5
2		1B		3 story cottage Upper BC ₂ Middle - B ₁₂ ² S ₁₂ ² Lower - Quarters	SB	N	1-I-5

S E C R E T

Exhibit 1-J, Page 1 of 11 pages.

S E C R E T

Form #39, Annex J.

H. D. of Boston

INDEX AND SUMMARY

- By Location -

Pri- ority:	Item No.:	Loca- tion:	Site No.:	Type of Structure and Purpose	Aerial: Protec- tion:	Gas Proof- ing:	Exhibit :
2		1C		Battery #2 (Const.#208) 2-6" BC	BB	Y	1-I-5
		1D		3 story cottage Upper B ₁ ⁴ S ₁ ⁴ Middle B ₂ ³ S ₂ ³ Lower B ₅ ² S ₅ ²	SB	N	1-I-5
2	115	1A		<u>Strawberry Point</u> 3 story steel tower Roof- AAIS OP 5 Upper B ₁₅ ¹ S ₁₅ ¹ Middle B ₁₃ ¹ S ₁₃ ¹ Lower B ₁ ⁵ S ₁ ⁵	SB	N	1-I-6
2		1B		3 story cottage Upper B ₂ ⁴ S ₂ ⁴ Middle Right B ₁₂ ³ S ₁₂ ³ Left G2 - CP Lower G2 - CP	SB	N	1-I-6
1		1C		2 story steel tower (Existing) Upper - B ₅ ³ S ₅ ³ Lower - B ₁₄ ¹ S ₁₄ ¹	SB	N	1-I-6
2		1D		3 story cottage Upper B ₁₆ ² S ₁₆ ² Middle Right C ₁ ² OP Left B ₁₁ ² S ₁₁ ² Lower - Quarters	SB	N	1-I-6
1	116	1A		<u>Strawberry Hill</u> 1 story concrete double station, (Existing) Roof- AAIS OP-6 Floor Right- not assigned Left-B ₁₀ ¹ S ₁₀ ¹ -Whipple	SB	N	1-I-7

S E C R E T

Exhibit 1-J, Page 2 of 11 pages.

S E C R E T

Form #39, Annex J.

H. D. of Boston

INDEX AND SUMMARY

- By Location -

Pri- ority	Item No.	Loca- tion No.	Site No.	Type of Structure and Purpose	Aerial: Protec- tion	Gas Proof- ing	Exhibit No.
1	117		1A	<u>Fort Andrews</u> 2 story stucco sta. (Existing) Upper- B ₁ ¹ S ₁ ¹ McCook Lower- Unassigned	SB	N	1-I-8
1			1B	2 story brick station, ob- servation (Existing) Upper BC ₄ Lower PR McCook	SB	N	1-I-8
1			1C	CRF ₃ station, concrete (Existing)	SB	N	1-I-8
1			1D	Battery Bumpus #3 2-3" BC	HSB	N	1-I-8
1			1E	Battery, McCook #4 2-6" BC	HSB	N	1-I-8
1			1F	Fixed Searchlight #15			
1			1G	Fire control Switchboard	BB	Y	1-I-8
1	118		1A	<u>Fort Duvall-Hog Island</u> Battery Long, #5 2-16" BC plotting room and switchboard (Existing)	BB	Y	1-I-9
1	119		1A	<u>Fort Revere-Hull</u> 1 story double mine station (Existing) Stucco Floor Right - M ₁ ² R Left - M ₁ ² L	SB	N	1-I-10
1			1B	AA Battery #1 (Existing)	N	N	1-I-10
1			1C	Searchlight #14 Fixed type (Existing)	N	N	1-I-10
1			1D	23 Bay searchlight shelter	IB	N	1-I-10
1			1E	Fire control switchboard (Existing)	BB	Y	1-I-10

S E C R E T

Exhibit 1-J, Page 3 of 11 pages.

S E C R E T

Form #39, Annex J

H. D. of Boston

INDEX AND SUMMARY

- By Location -

Pri- ority:	Item No.:	Loca- tion:	Site No.:	Type of Structure	Aerial: Protec- tion:	Gas ing:	Exhibit No.:
2	120	<u>Point Allerton-Hull</u>					
	1A	Cupola type steel tower	SB	N	1-I-11		
		2 story, in patio of existing building					
		Roof-AAIS OP-7					
		Upper B ₁₆ S ₁₆					
		Lower					
		Left B ₁₁ S ₁₁					
		Right B ₁₃ S ₁₃					
1	2A	Allerton Point Cottage (existing) 3 story concrete	SB	N	1-I-11		
		Upper - B ₁₄ S ₁₄ Gardner					
		Middle-					
		Left - BC ₅					
		Right - C ₁ - OP					
		Lower -					
		Left - C ₁ - CP					
		Right - B ₅ S ₅					
2	3A	2 story cottage type observation station	SB	N	1-I-11		
		Upper B ₁₂ S ₁₂					
		Lower B ₁₅ S ₁₅					
1	121	<u>Fort Warren-Georges Island</u>					
	1A	1 story station with two rooms (existing) stucco and concrete	SB	N	1-I-12		
		Floor					
		Front MG-1-OP					
		Rear MG-1-CP					
1	1B	Mine Storehouses and loading room (Existing)	1B	N	1-I-12		
1	1C	Mine Casemate, M1 (Existing)	BB	Y	1-I-12		
1	1D	2 story brick observation station (1 story existing, 1 story to be added) with bombproof casemate beneath (Existing)	HSB	Y	1-I-12		
		Roof-AAIS-OP 8					
		Upper SD ₁ OP					
		Middle C ₂ - OP					
		Gallery C ₂ - CP					
		Gallery - Seaward					
		Defense Command - CP					

S E C R E T

Exhibit 1-J, Page 4 of 11 pages.

S E C R E T

Form 39. Annex J

H. D. of Boston

INDEX AND SUMMARY

- By Location -

Pri- ority:	Item No.:	Loca- tion No.:	Site No.:	Type of Structure and Purpose	Aerial: Protec- tion:	Gas: Proof- ing:	Exhibit No.:
121 Cont.							
	1E			1 story double mine sta- tion with rear room, brick (Existing) Floor Right - M ₁ ¹ R Left - M1 CP & OP Lower - M1 P	SB	N	1-I-12
1	1F			Searchlight #18 (fixed type existing)	N	N	1-I-12
1	1G			Fire control switchboard	BB	Y	1-I-12
1	1H			TNT magazine (Ordnance #1)	BB	N	1-I-12
1	1I			TNT magazine (Battery Bartlett)	BB	N	1-I-12
1	122	1A		<u>Fort Strong-Long Island</u> Battery Stevens #6 2-3" BC	HSB	N	1-I-13
		1B		Battery Taylor, #8 2-3" BC	HSB	N	1-I-13
1	1C			AA Battery #3 (Existing)	N	N	1-I-13
1	1D			Mine Storehouses and load- ing room (Existing)	1B	N	1-I-13
1	1E			Mine Casemate, M2 (Existing)	BB	Y	1-I-13
1	1F			Battery Basinger, #7 2-3" BC with C.R.F. station	HSB	N	1-I-13
1	1G			Fixed Searchlight #19 (Existing)	N	N	1-I-13
1	1H			Fire control switchboard (Existing)	BB	Y	1-I-13
1	1I			TNT magazine (Battery Smythe)	BB	N	1-I-13
1	1J			TNT magazine (Battery Ward)	BB	N	1-I-13
1	123	1A		<u>Fort Standish-Lovells Island</u> Battery Williams, #9 3-3" BC	HSB	N	1-I-14
1		1B		CRF Station, RF9 (existing, wood platform)	N	N	1-I-14
1	1C			Battery Whipple #10 2-6" BC	HSB	N	1-I-14
1	1D			CRF Station, RF10 (Existing concrete station)	SB	N	1-I-14

S E C R E T

Exhibit 1-J, page 5 of 11 pages.

S E C R E T

Form #39 Annex J.

H. D. of Boston

INDEX AND SUMMARY

- By Location -

Pri- ority	Item No.	Loca- tion	Site No.	Type of Structure	Aerial : Protec- tion	Gas : Proof ing	Exhibit No.
123 Cont.							
1		1E		1 story, wood observation station (Existing) Floor Left - B ₁₀ ² S ₁₀ ² Whipple Right - not assigned	SB	N	1-I-14
1		1F		AA Battery #2 (Existing)	N	N	1-I-14
1		1G		1 story, double mine station with plotting rooms, stucco (Existing) Floor R. Front - M ₂ ² R R. Rear - M ₂ ² - CP L. Front - M ₂ ² L L. Rear - M ₂ ² P	SB	Y	1-I-14
1		1H		1 story observation station with plotting room, brick with concrete roof (existing) Front - BC 10 and OP Whipple Rear - P10	SB	Y	1-I-14
1		1I		Searchlight #20 (fixed type - existing)	N	N	1-I-14
1		1J		Fire Control Switchboard	BB	Y	1-I-14
124 <u>Great Brewster Island</u> No installations artillery							
125 <u>Calf Island</u> No installations artillery							
2		126		<u>Outer Brewster Island</u> 1A 2 story, concrete observation station Roof - AAIS OP-9 Upper- B ₁₁ ⁴ S ₁₁ ⁴ Lower- BC11	SB	N	1-I-15
2		1B		Battery #11, Const. #209 2-6" BC	BB	Y	1-I-15
1		127		<u>Fort Dawes - Deer Island</u> Searchlight #21 (Fixed type Existing)	NF	N	1-I-16
3		1B		Battery #12 Const. #105 2-16" BC	BB	Y	1-I-16

S E C R E T

Exhibit 1-J, Page 6 of 11 pages.

~~SECRET~~

Form #39 Annex J

H. D. of Boston

INDEX AND SUMMARY

- By Location -

Priority	Item No.	Location Site No.	Type of Structure and Purpose	Protection	Proofing	Exhibit

127 Cont.

2	1C	Battery #13 Const. #207 2-6" BC	BB	Y	1-I-16
1	1D	Concrete station, manhole type (Existing) Floor - B ₄ ² S ₄ ²	SB	N	1-I-16
1	1E	Concrete station manhole type (Existing) Floor- BC 12	SB	N	1-I-16
1	1F	Concrete station manhole type (Existing) Floor- B ₁₃ ³ S ₁₃ ³	SB	N	1-I-16
1	1G	1 story, concrete observa- tion station (Existing) Roof- AAIS OP-10 Floor- BC ₁₃	SB	N	1-I-16
1	1H	1 story, double, concrete observation station (Existing) Floor- M ₂ ¹ R OP M ₂ ¹ L OP	SB	N	1-I-16
1	1I	1 story, triple, stucco observation station Floor (Existing) Right - C ₃ ¹ OP Center -MG ₂ CP & OP Left - B ₁₀ ³ S ₁₀ ³ Whipple	SB	N	1-I-16
1	1J	2 story stucco observation and group station (Existing) Upper - HECF Lower - HECF	HSB	Y	1-I-16
1	1K	Searchlight #22 (Fixed type existing)	NP	N	1-I-16
2	1L	Bombproof magazine- 3 sections	BB	N	1-I-16

S E C R E T

Exhibit 1-J, Page 7 of 11 pages.

S E C R E T

Form #39, Annex J

H. D. of Boston

INDEX AND SUMMARY

- By Location -

Pri- ority:	Item No.:	Loca- tion No.:	Site No.:	Type of Structure	Aerial: : Protec- tion :	Gas Proof- ing :	Exhibit No.:
		128		<u>Fort Banks-Winthrop</u>			
1		1A		Bombproof in old Battery Lincoln HDGP and Boston Sub-Sector CP, AACF, Radio, Message Center, Fire Control and Post Switchboards	HSB	Y	1-I-17
		129		<u>Fort Heath</u>			
1		1A		1 story concrete and stuc- co observing station (Existing) Roof - AAIS - OP11 Front - B ₄ ³ S ₄ ³	SB	N	1-I-18
		130		<u>Fort Ruckman</u>			
1		1A		3 story cottage type ob- serving station Upper BC ₁₄ ⁴ Middle Rt. B ₄ ⁴ S ₄ ⁴ Middle Lt. B ₁₀ ⁴ S ₁₀ ⁴ Lower C3 - CP	SB	N	1-I-19
1		2A		Battery Gardner #14, 2-12BC plotting room, switchboard (Existing) to be casemated	BB	Y	1-I-19
1		2B		Searchlight (Fixed) #23 (Existing)	N	N	1-I-19
1		2C		AA Battery #4	N	N	1-I-19
1		3A		Bombproof Magazine 3 sections	BB	N	1-I-19
		131		<u>East Point-Nahant</u>			
2		1A		3 story, cottage type ob- servation station Roof - AAIS-OP12 Upper - B ₁₅ ³ S ₁₅ ³ Middle- Left - B ₁₂ ⁵ S ₁₂ ⁵ Right- G-3-CP Lower - G-3-CP	SB	N	1-I-20
2		2A		3 story cottage type observation station Upper - B ₁₆ ⁴ S ₁₆ ⁴ Middle - Left B ₁₄ ³ S ₁₄ ³ Right BC ₁₅ Lower- Quarters	SB	N	1-I-20

S E C R E T

Exhibit 1-J, Page 8 of 11 pages.

S E C R E T

Form #39, Annex J

H. D. of Boston

INDEX AND SUMMARY

- By Location -

Pri- ority	Item No.	Loca- tion No.	Site No.	Type of Structure and Purpose	Aerial Protection	Gas Proofing	Exhibit No.
131 Cont.							
2	3A			Battery #15 Const. #206 2 6" BC	BB	Y	1-I-20
3	3B			Battery #16 Const. #104 2 16" BC	BB	Y	1-I-20
1	4A			3 story concrete observa- station. Upper B ₅ ⁵ S ₅ ⁵ Long Middle Left B ₁₁ ⁵ S ₁₁ ⁵ Right G-4 OP Lower G-4-CP	SB	N	1-I-20
2	5A			3 story cottage type ob- servation station Upper B ₁₃ ⁴ S ₁₃ ⁴ Middle BC ₁₆ Lower Quarters	SB	N	1-I-20
132							
2	1A			<u>Marblehead Neck</u> 3 story cottage type observing station Upper B ₁₁ ⁸ S ₁₁ ⁸ Middle B ₁₅ ⁴ S ₁₅ ⁴ Lower B ₁₆ ⁵ S ₁₆ ⁵	SB	N	1-I-21
1	2A			2 story, cottage type observing station (authorized) Roof - AAIS -6OP -13 Upper B ₅ ⁶ S ₅ ⁶ Lower B ₁₄ ⁴ S ₁₄ ⁴	SB	N	1-I-21
2	3A			3 story cottage type observing station Upper B ₁₃ ⁵ S ₁₃ ⁵ Middle B ₁₂ ⁶ S ₁₂ ⁶ Lower C ₅ ² ~ OP	SB	N	1-I-21
133							
<u>Marblehead Light</u> No artillery installations							

S E C R E T

Exhibit 1-J, Page 9 of 11 pages

S E C R E T

Form #39, Annex J

H. D. of Boston

INDEX AND SUMMARY

- By Location -

-----		:Loca-:	:	:Aerial: Gas :	:Protec:Proof-: Exhibit
Pri-:Item :	tion:Site:	Type of Structure	:	:	:
ority:No.:	No.:	No.:	and Purpose	:tion:ing :	:
	133A	<u>Gales Point</u>			
2	1A	Windmill type tower, ob- serving station Roof - AAIS - OP 14 Upper - B ₁₆ ⁶ S ₁₆ ⁶ Middle - B ₁₂ ⁷ S ₁₂ ⁷ Lower - B ₁₅ ⁵ S ₁₅ ⁵	SB	N	1-I-22
	134	<u>Coolidge Point</u>			
1	1A	2 story steel observing tower (authorized) Roof - AAIS - OP 15 Upper - B ₅ ⁷ S ₅ ⁷ Lower - B ₁₄ ⁵ S ₁₄ ⁵	SB	N	1-I-23
	134A	<u>Eastern Point</u>			
3	1A	3 story cottage type ob- serving station Roof - AAIS - OP 16 Upper - B ₁₆ ⁷ S ₁₆ ⁷ Middle - B ₁₂ ⁸ S ₁₂ ⁸ Lower - Quarters	SB	N	1-I-24
	135	<u>Emerson Point</u>			
3	1A	3 story cottage type ob- serving station Roof - AAIS - OP 17 Upper - B ₁₂ ⁹ S ₁₂ ⁹ Middle - B ₁₆ ⁸ S ₁₆ ⁸ Lower - C ₃ ³ OP	SB	N	1-I-25
	136	<u>Halibut Point</u>			
3	1A	3 story cottage type ob- serving station Roof - AAIS - OP 18 Upper - B ₁₆ ⁹ S ₁₆ ⁹ Middle - B ₂ ¹ S ₂ ¹ * Lower - C ₃ ⁴ OP	SB	N	1-I-26

S E C R E T

Exhibit 1-J, Page 10 of 11 pages.

S E C R E T

Form # 39, Annex J.

H. D. of Boston

INDEX AND SUMMARY

- By Location -

:	:	Loca-:	:	:	:	Aerial:	Gas	:	:
Pri-:	Item	:tion	:Site	:	Type of Structure	:Protec:	Proof-	:	Exhibit
ority:	No.	:No.	:No.	:	and Purpose	:tion	i	ing:	:

137

Castle Hill

3

1A 2 story cottage type
observing station
Roof - AAIS OP #1 *
Upper Lt. - B₂² S₂² *
Upper Rt. - B₁₆¹⁰ S₁₆¹⁰

SB N 1-I-27

* H. D. at Portsmouth.

S E C R E T

Exhibit 1-J, Page 11 of 11 pages.