



Defense Environmental Restoration Program  
For  
Formerly Used Defense Sites  
Ordnance and Explosives Waste



Archives Search Report

FINDINGS

FOR THE FORMER

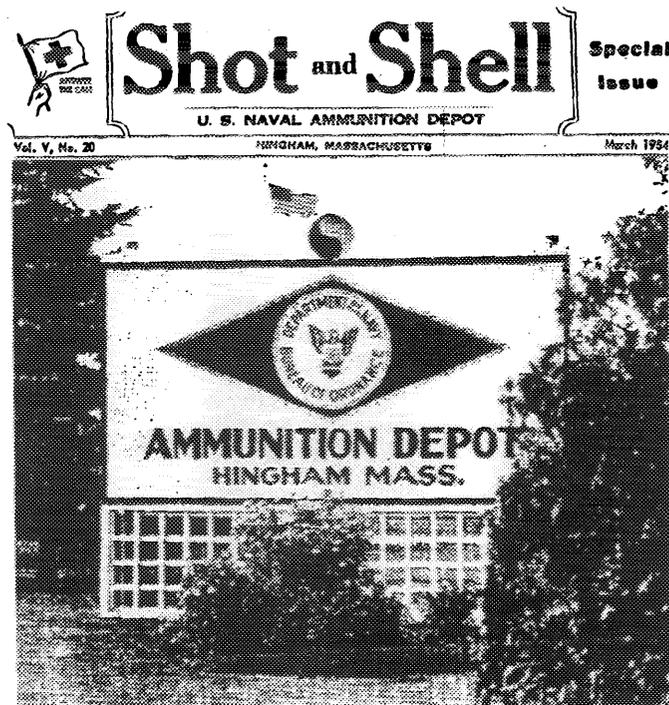
**HINGHAM NAVAL  
AMMUNITION DEPOT**

Hingham, Massachusetts  
Project Number D01MA002204

January 1995

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FOR  
FORMERLY USED DEFENSE SITES

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ARCHIVES SEARCH REPORT

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HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

January 1995

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**ORDNANCE AND EXPLOSIVE WASTE  
 ARCHIVES SEARCH REPORT  
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 HINGHAM, MASSACHUSETTS  
 PROJECT NUMBER D01MA002204**

**ACKNOWLEDGMENT**

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ARCHIVES SEARCH REPORT  
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1. INTRODUCTION

a. **Subject and Purpose**

(1) This report presents the findings of an historical records search and site inspection for ordnance and explosive waste (OEW) presence located at the former Hingham Naval Ammunition Depot, Hingham, Massachusetts. This investigation was performed under the authority of the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS).

(2) The purpose of this investigation was to characterize the site for confirmed and/or potential OEW contamination, to include chemical warfare materiel (CWM) and conventional munitions.

b. **Scope**

(1) The investigation focused on 990.262 acres of land that was acquired by purchase and condemnation for use as an Naval Ammunition Magazine and manufacturing facility beginning in 1903.

(2) This report presents the site history, site description, real estate ownership information, and confirmed ordnance presence (prior to and after site closure), based on available records, interviews, and the site inspection. It further provides a complete evaluation of all information to assess actual and potential present day ordnance contamination.

(3) For the purposes of this report, ordnance and explosive waste (OEW) is considered unwanted and abandoned ammunition or components thereof, which contain energetic, toxic, or radiological materials and was manufactured, purchased, stored, used, and/or disposed of by the War Department/Department of Defense.

2. PREVIOUS INVESTIGATIONS

a. **1985 Preliminary Assessment**

(1) In September 1985, a preliminary assessment of a portion of the Hingham Naval Ammunition Depot was conducted under the Defense Environmental Restoration Program, Formerly Used Defense Sites (DERP-FUDS) by the U.S. Army Corps of Engineers,

New England Division (CENED). At that time, the Findings and Determination of Eligibility (FDE), dated 13 February 1985, concluded that 990.262 acres was acquired by purchase and condemnation for use as the Hingham Naval Ammunition Depot beginning with initial acquisitions in 1903 (see document E-1).

(2) This investigation concluded that there were several eligible categories under DERP-FUDS (see document E-2 and table 2-1). Due to the fact that the site was found to have been utilized by the U.S. Navy as an ammunition depot and manufacturing facility, an Ordnance and Explosive Waste (OEW) project was recommended, DERP-FUDS OEW Project Number D01MA002204, which is the subject of this report.

**b. Other Investigations**

No other investigations or studies relevant to DERP-FUDS were discovered during this Archive Records Search.

| TABLE 2-1<br>DERP FUDS PRELIMINARY ASSESSMENT PROJECTS |               |               |   |                   |
|--|---------------|---------------|---|-------------------|
| Project Number   | DERP Category | Present Phase | Comments                                | Location          |
| D01MA002204  | OEW           | SI            | Ordnance/<br>Explosive<br>contamination | Bare Cove Park    |
| D01MA002201  | CON/HTRW      | SI            | Drum and<br>Transformer                 | School Tract II   |
| D01MA002202  | BD/DR         | SI            | Drowning and<br>Falling Hazard          | Various buildings |

3. SITE DESCRIPTION

a. **Existing Land Usage**

(1) The former Hingham Naval Ammunition Depot is now the property of the cities of Weymouth and Hingham; the Massachusetts Division of Fisheries and Wildlife; Department of Public Works; Hingham Mutual Life Insurance Co.; Hingham Property Trust; and several other developers and smaller landholders.

(2) A large portion of this site consists of salt marsh, tidal flats, and open water which present environmental concerns in the remediation process. It is used primarily for recreational activities such as fishing, hiking and boating.

(3) Table 3-1 represents the current land usage of the area depicted on plate 2.

| TABLE 3-1<br>CURRENT LAND USAGE |                     |                               |               |         |
|---------------------------------|---------------------|-------------------------------|---------------|---------|
| AREA                            | FORMER USAGE        | PRESENT OWNERS                | PRESENT USAGE | ACRES   |
| A                               | North Pier          | Bare Cove Park                | Recreation    | 1.4     |
| B                               | South Pier          | Bare Cove Park                | Recreation    | 2.8     |
| C                               | Industrial Area     | Bare Cove Park                | Recreation    | 7.3     |
| D                               | Furnace Area        | Bare Cove Park                | Recreation    | 2.5     |
| E                               | Magazine Area       | Various Owners                | Residential   | 295.0   |
| F                               | Magazine Area       | Various Owners                | Residential   | 250.0   |
| G                               | Weymouth Back River | Commonwealth of Massachusetts | Recreation    | 119.0   |
| H                               | Buffer Area         | City of Weymouth              | Recreation    | 237.0   |
| I                               | Chemical Magazine   | Various Owners                | Residential   | 0.5     |
| J                               | Burial Area         | Bare Cove Park                | Recreation    | 4.6     |
| K                               | Rubbish Dump        | Bare Cove Park                | Recreation    | 0.30    |
| L                               | Remaining Area      | Various Owners                | Various Uses  | 69.86   |
|                                 |                     |                               | TOTAL:        | 990.262 |

## **b. Climatic Data**

(1) The following climatic data appears in the soil survey document provided by the Cooperative Extension Center, University of Massachusetts and the U.S. Department of Agriculture, Soil Conservation Service (see reference B-8).

(2) Plymouth County is in the coastal zone and is characterized by moderately warm summers, moderately cold winters, and moderate rainfall. The climate is influenced by the proximity of the Atlantic Ocean. Prevailing winds are westerly, with the wind being more northwesterly in winter and southwesterly in summer. The average wind speeds are between 6 and 14 miles per hour (see reference B-8).

(3) Total annual precipitation averages 45.73 inches for the Hingham area. The average annual snowfall is approximately 40 inches with the heaviest accumulations in the period from January to March (see reference B-8).

(4) Average annual temperature is 48.9 degrees Fahrenheit. In the warmer months of July and August, 79 degrees Fahrenheit is the normal high temperature. The colder months of January and February have a normal low temperature of 21 degrees Fahrenheit (see reference B-8).

(5) Relative humidity averages 65 percent at noon and is higher at night, averaging 70 percent at dawn. Skies are typically cloudy more than half the days. This is further complicated by urban smog (see reference B-8).

(6) Thunderstorms occur 20-30 times a year with most taking place in the summer months. Hailstorms occur once or twice a year but the stones are small and cause little damage. Hurricanes and heavy winds occur in the New England area once every 2 years, on average, and can cause severe damage and flooding (see reference B-8).

## **c. Topography**

The land in the area of the former Hingham Naval Ammunition Depot ranges from low uplands on the eastern side to coastal beaches and salt marshes on the western side of the site. Approximately 200 acres of the site are open water or tidal flats (see reference B-11).

## **d. Geology and Soils**

(1) The geology of Plymouth County, as well as all of New England, was most heavily affected by the last of the continental glaciers of the Pleistocene Epoch. Glacial ice advanced and retreated four times over this area leaving

moraines, kettle lakes and large glacial boulders and eskers as it retreated (see reference B-9). The soils which remained were sedimentary deposits from glacial runoff and consist of bedrock from the Cape Cod area as well as from the large areas of exposed bedrock in the Hingham area (see reference B-9).

(2) The soil at the site is characterized as ground moraine in the soil survey (see document B-8). The general soil map identifies Quonset-Hollis-Bernardston as the predominant association in the Hingham area. These soils are generally level to sloping, well-drained to excessively-drained soils, deep and shallow to bedrock having formed in the glacial till and outwash.

(3) The soil which predominates within the Quonset-Hollis-Bernardston association is Quonset sandy loam with 3-8 percent slopes. This soil is high in phyllite which gives the gravel a dark color. It is very strongly acid. The color ranges from light to dark brown.

(4) The next large dispersion of soil is a quantity of tidal marsh centered on Beal Cove but extending around the periphery of all the water on the site (see reference B-11). Tidal marsh is a very poorly drained organic and mineral deposits that are flooded regularly by tidal action. The mineral deposits are predominantly silt. The organic deposits are mainly accumulations of herbaceous vegetation. The soil is strongly acid, saline, and difficult to maneuver heavy equipment in or through.

(5) The last soil that exists in enough quantity to be a problem on this site is muck, both shallow and deep. It is very poorly drained and formed in an accumulation of plant material that has decomposed to the point that the plant material cannot be readily identified. This soil is very acid and very difficult to maneuver heavy equipment in and through. The depths for the muck can vary but generally do not exceed 2 1/2 feet.

**e. Hydrology**

The site has a major hydrological feature in the form of the Weymouth Back River, a tidal estuary. Additionally, there are several streams connecting marshes to the estuary. The only open fresh water on the site is a pond in the residential area. All the coastline areas have been designated as salt marsh, coastal bank, tidal flat, marsh, or shrub marsh by the Commonwealth of Massachusetts Department of Environmental Protection, Division of Wetlands and Waterways, Wetlands Conservancy Program (see reference B-11).

**f. Natural Resources**

(1) The Massachusetts Division of Fisheries and Wildlife provided a listing of threatened and endangered species known currently or historically in the Hingham, Massachusetts. It contains six vertebrates and seven vascular plants considered endangered or threatened by the Commonwealth of Massachusetts and/or the Federal Government. This information is summarized in table 3-2 (see reference B-12).

(2) Table 3-2 is a representation of the natural resources of Hingham, Massachusetts area.

| TABLE 3-2<br>NATURAL/CULTURAL RESOURCES*               |  |             |
|--|--|-------------|
| Resource Classification                                | Type                                   | Protection* |
| Vertebrates  | Pied-Billed Grebe                      | T           |
|  | Eastern Box Turtle                     | SC          |
|  | Spotted Turtle                         | SC          |
|  | Wood Turtle                            | SC          |
| Vascular Plants  | Arethusa                               | T           |
|  | Adder's Tongue Fern                    | T           |
|  | Bristly Buttercup                      | T           |
|  | Rich's Sea Blite                       | SC          |
|  | Linear-leaved Milkweed                 | T           |
|  | Seabeach Dock                          | T           |
| Historical/Cultural                                    | No historical/cultural sites per SHPO. |             |
| *T= Threatened    E= Endangered    SC= Special Concern |  |             |

#### **g. Historical and Cultural Resources**

According to Ms. Brona Simon, Deputy State Historic Preservation Officer (SHPO) there are no specific cultural, historical, archeological, or paleontological sites known to exist on the site of the former Hingham Naval Ammunition Depot (see reference sources, appendix A, and document B-7).

#### **4. HISTORICAL ORDNANCE PRESENCE**

##### **a. Chronological Site Summary**

(1) The site was selected for the establishment of an Naval Magazine on 3 March 1903, by Congress based on the recommendation of a Board of Naval officers. Acquisition of the land began in 1906 and was initially completed in 1913, through condemnation and purchase. The first ammunition was received in January 1911, for the USS Missouri (see document E-7).

(2) Facilities were expanded during World War I for both storage and production. Gun ammunition was produced throughout the war and activity was high at the depot post-World War I due to disposal activities. The work force was reduced gradually to a force of 125 personnel immediately prior to World War II (see reference B-15).

(3) The peacetime mission of the depot for the years 1919-1939 was largely the assembly, storage, and issue of target practice ammunition for the fleet; overhaul of service ammunition stored afloat; and maintenance and demilitarization of unserviceable ammunition and components (see reference B-15).

(4) The depot expanded continually throughout World War II due to the proximity of several shipyards and the fact that refit work was not conducted on ships uploaded with ammunition. The depot was also charged with the mission of preparing large quantities of ammunition for expenditure by the Allied fleets in support of convoys to Britain and Russia. Additionally, the depot was charged with support of antisubmarine warfare forces at nearby bases, ammunition issues to newly armed merchant ships, and issues of training ammunition to both land and aerial units. As the war in the European theater drew to a close, emphasis was redirected to the manufacture of variable time (VT) fuzes for anti-aircraft artillery and the production of 5 inch rocket motors. These programs absorbed all slack time and continued through V-J day (see reference B-15).

(5) In the years following the Second World War, the depot engaged in a program of ammunition overhaul of every item in the Navy inventory, as well as several items in the British and French inventories. The depot was also involved in the dumping at sea of unserviceable munitions items. Activity slowly leveled off as backlogs were cleared and the depot was placed in a maintenance status on 31 March 1950.

(6) The Bureau of Ordnance reactivated the depot in June 1950, to help meet the requirements of the international episode in Korea. The depot recalled many old employees and was soon producing rocket motors and VT fuzes to capacity.

(7) The depot processed and serviced 300 Terrier guided missiles during 1959. The deactivation process began with the transfer of Comptroller functions to the Boston Navy Yard and disestablishment of the Marine Guard Barracks. The deactivation of the depot continued through 1960 with stocks of ammunition and components being shipped to other storage facilities. Over 1,000 Terrier missiles were processed during the year and the unit, Guided Missile Service Unit #215, was finally deactivated in June 1961 (see reference B-15).

(8) The depot was finally emptied of ammunition and components in late 1961, at which time it was closed. The 990.262 acre depot was reported as excess to General Services Administration in 1962. The Navy withdrew 753.262 acres from excess but reported them as excess again in 1970 and 1971, after a planned housing area was canceled. The General Services Administration has since conveyed the acreage in part to the cities of Hingham and Weymouth for educational and recreational purposes; the Department of Health Education and Welfare; and to private developers by deed for varying considerations. No portions of the former depot are now under control of the Department of Defense.

#### **b. Ordnance Related Records Review**

(1) The following ordnance-related record groups at the National and regional archives were searched for data relevant to Hingham Naval Ammunition Depot during the period 1903-1919: 18, 30, 71, 77, 92, 107, 153, 156, 160, 338, 341, 394, and 407. Maps were reviewed from the period and clearly show the boundaries of the installation, a training camp, piers, railroads, and barracks. Photographic records do exist of the depot during this period of time (see photographs K-9 and K-10, document L-1, and plate 2). These clearly show the presence of ammunition and its components to include shells and mines.

(2) The records for the period 1939-1960 include the official wartime records of the depot, command histories of the depot, shipping documents, inventory records, construction files, as well as aerial and ground photography. The inventory and shipping records, as well as the wartime logs, show that nearly every line item in the naval inventory was processed at the Hingham Naval Ammunition Depot at some time during the lifecycle of production, storage, modification, transshipment, and demilitarization. Inventory records and shipping logs confirm the storage of chemical agent identification kits in one structure on the depot (see documents F-1 and F-2 and documents L-2 and L-3).

(3) No reports were in evidence from EOD units supporting this area. The Boston Fire Marshal, who has responsibility for OEW incidents in conjunction with the State Police, had no pertinent records for Hingham Naval Ammunition Depot.

### **c. Personnel Interviews**

(1) Ensign Iacobucchi at the Public Affairs office, NAS South Weymouth, Massachusetts, has had a clippings file for the last 15 years. An article detailing the discovery of a 5" cartridge case (see document H-2) was copied. He told us that the EOD team formerly assigned to NAS South Weymouth had been deactivated and their records had been destroyed (see document I-2).

(2) Mr. Obie Johnson has been employed for several years at Bare Cove Park as a security person, as well as at the former Hingham Naval Ammunition Depot, in the same capacity. He was of the opinion that many of the stories concerning ammunition discoveries were exaggerations that should not be taken seriously. When pressed about OEW discoveries, he said he had not found or seen any OEW in all his years working in the area (see document I-3).

(3) Mr. Bruce Pinel told us his father worked at the depot and that he had given his son a large quantity of pictures that reflected the growth of the depot over the years (see appendix K). He had heard reports of OEW being found, specifically the 5" cartridge case. He had brass cartridge cases which had been converted to ashtrays and lamp bases. He had no knowledge of any recent discoveries of OEW or accidents/incidents involving OEW (see document I-5).

(4) Mr. Frank Sheltry showed us the demilitarized pieces of ammunition and components he has dug up or otherwise discovered over the last few years (see photograph J-3). Fuze ogives have been found in Area J-Burial Area, but no further evidence of OEW has been discovered as of late. He had no knowledge of recent discoveries of OEW, except the 5" cartridge case in 1975 (see document I-6).

(5) Mr. Costello was an EOD technician assigned to Otis AFB in the 1980s and remembered responding to incidents in the Hingham area. He now works for the the Boston Fire Marshal's Office which handles explosive incidents for the Massachusetts State Police. He could not relate specific incidents but just had a general feeling that certain areas of the former depot were probably contaminated. He could remember no incidences of personal injury or property damage due to OEW (see document I-7).

## 5. SITE ELIGIBILITY

### a. **Confirmed Formerly Used Defense Site**

The purchase and taking of the 990.262 acres comprising the former Hingham Naval Ammunition Depot has been confirmed and summarized in U.S. Army Corps of Engineer Findings and Determination of Eligibility (see document E-2).

### b. **Potential Formerly Used Defense Sites**

There were no potential Formerly Used Defense Sites discovered during the historical records search or the site visit.

## 6. VISUAL SITE INSPECTION

### a. **General Procedures and Safety**

(1) Inspection was limited to nonintrusive methods; subsurface sampling was not authorized nor was it performed. Prior to the on-site visit, a thorough review of all available reports, historical documents, and available reference material gathered during the archival search was conducted to ensure Assessment Team members were aware of potential types and usage of ordnance that could be expected to be found on the site.

(2) Real estate rights of entry were not obtained by inspection personnel due to the willingness of the landowners to accommodate the Assessment Team. Control and jurisdiction of the site remained with the owners during this inspection.

(3) A site safety plan was developed and utilized by the Assessment Team to assure safety from injury during the site inspection. A preinspection briefing was conducted which stressed that OEW should not be touched or handled except by military EOD personnel. The land owner and personnel on the site were briefed on the hazards of handling or otherwise disturbing OEW or metallic items that could potentially be OEW.

(4) The team consisted of Ed McManus and Mike LaForge. The area was visited 18-23 October 1994. Land owners contacted gave permission for entry and in some cases accompanied the inspectors as escorts.

**b. Area A: North Pier**

(1) The area is located in the northern portion of the site and is contaminated around the side and ends of the pier. This area is classified as a localized water site. This is based on eyewitness statements by a noted local naturalist. The pier (photograph J-13) extends into the Weymouth Back River which is only 4 feet deep at high tide now at this point due to silting. Any OEW related items would likely be within 20 to 30 feet of the pier, buried in silt. No OEW was noted during the course of the inspection but it has been reported that ordnance and ordnance related items have been recovered during dredging operations.

(2) The pier was evaluated during the Preliminary Assessment for inclusion in BD/DR project number D01MA002202. The City of Hingham preferred to maintain the dock for use and/or renovation so it was not included in that project.

**c. Area B: South Pier**

(1) The area is located in the central western portion of the site and is contaminated around the side and ends of the pier. This is a localized water site. Like the North Pier, the area around the pier is heavily silted and any OEW items present would be buried deeply. No OEW was noted during the course of the inspection but it has been reported that ordnance and ordnance-related items have been recovered during dredging operations.

(2) The pier was evaluated during the Preliminary Assessment for inclusion in BD/DR project number D01MA002202. The condition of the deck and concrete pilings were the deciding factors in the pier's inclusion in the BD/DR project.

**d. Area C: Industrial Area**

(1) The area is located in the center of the former Naval Ammunition Depot. The only structure extant is the Explosive D sifting house, which has been converted to a wildlife observation tower (see photograph J-12). The building has been maintained and painted. No evidence of OEW was noted by the team during the inspection, but the nature of the sifting operation may have left Explosive D in cracks, crevices, and other sealed areas, so this area must be considered potentially contaminated.

(2) The building was evaluated during the Preliminary Assessment for inclusion in BD/DR project number D01MA002202. The City of Hingham, Bare Cove Park, preferred to maintain the building for use and/or renovation and it was not included in that project.

**e. Area D: Furnace Area**

(1) The remains of the base of the furnace were still visible at this area in the northwest portion of the site (see photograph J-4). Demilitarized items of OEW have been found in the shallows and at the waters edge by local residents (see photograph J-3). No OEW was noted on the site by the inspectors, but it should be noted that the area underwater adjacent to the furnace was not examined and this qualifies as a potentially contaminated area.

(2) A service magazine and a test well (see photograph J-15) are located across the road from the popping furnace site. No OEW was noted at this location.

**f. Area E: Magazine area**

(1) The magazine area was toured by vehicle and on foot in some areas. This is a residential/business area and many of the magazines were removed to build office space, condominiums, and apartments. Magazines still exist on the portions of this area owned by the City of Hingham (see photographs J-6 and J-9). No OEW was noted by the team during the inspection of this area.

(2) The area has several projects under BD/DR project number D01MA002202 and CON/HTW project number D01MA002201 based on the 1985 Preliminary Assessment which was updated in 1991, after a site visit by CENED to update the FDE to include the whole site.

**g. Area F: Magazine Area**

(1) The area is a mixture of developed residential property, undeveloped residential property, and the southern portion of the City of Hingham's Bare Cove Park. The area was inspected by vehicle and on foot. Several excavations were inspected for evidence of OEW in the area where developers are encroaching into former magazine storage areas (see photographs J-1 and J-2).

(2) The area has several projects under BD/DR project number D01MA002202 and CON/HTW project number D01MA002201 based on the 1985 Preliminary Assessment which was updated in 1991, after a site visit by CENED to update the FDE to include the whole site.

**h. Area G: Weymouth Back River**

The Weymouth Back River was visually inspected from the shore. No OEW was visible at low tide on the tidal flats. This area should be considered potentially contaminated due to its use as the main shipping channel and lighter holding area.

**i. Area H: Buffer Area**

Buffer Area was inspected on foot by the team (see photographs J-11 and J-16). No evidence of OEW was noted.

**j. Area I: Chemical Magazine**

The area where chemical magazine was located is in the middle of Area E Magazine Area. There is no trace of this magazine left due to the demolition of the structure and construction of condominiums.

#### **k. Area J: Burial Area**

The Burial Area in Bare Cove Park was an unnaturally flat area with scattered pieces of banding, a 20mm fuze cap (see photograph J-3) and Navy Steel pallets half-buried in the ground. The area (see photographs J-7 and J-8) may have been used as a burial ground to help fill a low swampy spot (see document I-1).

#### **l. Area K: Dump Area**

The Dump Area in Bare Cove Park was basically a rubbish tip on the side of the road. Old ammunition cans were noted, as well as rusted Navy steel pallets. Erosion is exposing more and more of the items dumped there over time.

### **7. EVALUATION OF ORDNANCE HAZARDS**

#### **a. General Procedures and Safety**

(1) This site was evaluated to determine whether there is a confirmed ordnance presence, potential ordnance presence, or it is uncontaminated by ordnance. Confirmed ordnance contamination is based on verifiable historical evidence or direct witness of ordnance items since site closure. Verifiable historical record evidence consists of ordnance items located on site and documented by local bomb squads, military Explosive Ordnance Disposal (EOD) teams, newspaper articles, correspondence, current findings, etc. Direct witness of ordnance items consists of the site assessment team directly locating ordnance items by visual inspection. Additional field data is not needed to identify a confirmed site.

(2) Potential ordnance contamination is based on a lack of confirmed ordnance. Potential ordnance contamination is inferred from records or indirect witness. Inference from historical records would include common practice in production, storage, usage, or disposal at that time, which could have allowed present day ordnance contamination. Potential ordnance contamination could also be based on indirect witness or present day site features. Additional field data is needed to confirm potential ordnance subsites.

(3) Uncontaminated ordnance subsites are based on a lack of confirmed or potential ordnance evidence. All evidence found in historical records and present day site inspections do not indicate confirmed or potential ordnance contamination. There is no reasonable evidence, direct or inferred, to suggest present day ordnance contamination. Additional field data is not needed to assess uncontaminated ordnance subsites.

**b. Area A: North Pier**

The North Pier has a confirmed ordnance presence. This is based on eyewitness accounts, historical records, and acceptable and standard practices of the times. Loose sling loads of ammunition, fleet returns, were handled unpalletized in cargo nets and open-topped pallets. These handling practices indicate that some articles of ammunition were probably lost during the transfer from lighter to pier. Common practice would have been to let the least hazardous items remain on the bottom, rather than waste valuable demurrage and pier time in their recovery.

**c. Area B: South Pier**

The South Pier has a confirmed ordnance presence. This is based on eyewitness accounts, historical records, and acceptable and standard practices of the times. Loose sling loads of ammunition, fleet returns, were handled unpalletized in cargo nets and open-topped pallets. These handling practices indicate that some articles of ammunition were probably lost during the transfer from lighter to pier. Common practice would have been to let the least hazardous items remain on the bottom, rather than waste valuable demurrage and pier time in their recovery.

**d. Area C: Industrial Area**

This area has a potential ordnance presence based on the nature of the Explosive D sifting operation conducted inside the existing building. Explosive D may have itself sifted into cracks, crevices, and other nonaccessible sealed areas, so this area must be considered potentially contaminated.

**e. Area D: Furnace Area**

This area is considered to be potentially contaminated with ordnance, based on the nature of the demilitarization work done here, the recovery of demilitarized primer parts on the shoreline, and acceptable practices at the time.

**f. Area E: Magazine area**

The Magazine Area E is considered uncontaminated based on the visual inspection, lack of historical evidence to the contrary, and negative reports from EOD and local police agencies.

**g. Area F: Magazine Area**

The Magazine Area F is considered uncontaminated based on the visual inspection, lack of historical evidence to the contrary, and negative reports from EOD and local police agencies.

**h. Area G: Weymouth Back River**

The Weymouth Back River is considered to be potentially contaminated with explosives based upon eyewitness account, acceptable practice, and use as a barge/lighter transit channel. Reports also indirectly indicate that ammunition from a sunken lighter had to be destroyed. This indicates that the lighter sank in water shallow enough for the ammunition to be recovered. Review of area nautical charts show that such a recovery is unlikely, other than in the estuary at low tide.

**i. Area H: Buffer Area**

The Buffer Area is considered uncontaminated based on several different factors. Review of maps from the period 1914-1954, show no development of this land by the Navy. Interviews with the present owners reveal no evidence of OEW or development by the Navy. No evidence of OEW or development was noted during the site inspection.

**j. Area I: Chemical Magazine**

The area where the Chemical Magazine was located is considered to be uncontaminated. Records show that storage and transshipment of chemical agent identification kits occurred. There is no evidence of their use or destruction in this area.

**k. Area J: Burial Area**

The Burial Area is considered potentially contaminated upon the site inspection and the recovery of ammunition components, such as 20mm fuze windshields, steel pallets, and packing materiel.

**l. Area K: Dump Area**

The Dump Area in Bare Cove Park is considered potentially contaminated based upon the site inspection, disposal standards of the time, and the recovery of ammunition-related components such as steel pallets, overpack cans, and other packing materials.

**m. Area L: Remaining Areas**

The Remaining Areas are considered uncontaminated based on the site inspection, review of historical records, and the absence of any OEW reports to local peace and EOD units.

8. SITE ORDNANCE TECHNICAL DATA

a. **End Item Technical Data**

(1) Table 8-1 has been developed to establish a list of typical ordnance items that were stored, manufactured, renovated, or demilitarized at the former Hingham Naval Ammunition Depot. Review of historical records from the period 1906-1961, show that at one time or another nearly every item in the Navy and Army inventories was stored or transited through the premises. The scope of this table is limited to typical ammunition types within the various classes, such as gun ammunition, naval mines, small arms, pyrotechnics, bulk propellants, chemical-filled ammunition, and missiles. Exact models and marks have been included where specific documentation exists to verify production, storage, transshipment, or demilitarization.

(2) Based on table 8-1, drawings of and information pertaining to typical ammunition items have been provided at appendix D.

| TABLE 8-1<br>AMMUNITION USED AND EXPLOSIVES/CHEMICAL FILLER |                  |  |
|---|------------------|--|
| Item  | Type/Model       | Filler\Weight  |
| FLEET MARINE/GROUND FORCES                                  |                  |  |
| Cartridge, .30 caliber,<br>Rifle                            | M2, Ball         | Lead antimony  |
|   | M1, Tracer       | Tracer composition   |
|   | M2, AP           | Tungsten chrome steel  |
|   | M1, INC          | Incendiary mixture   |
|   | M3 Rifle Grenade | brass case<br>5 grains black powder<br>45 grains IMR 4676 powder |
| Cartridge, .30 caliber,<br>Carbine                          | M1 Ball          | Lead antimony  |
|   | M16 Tracer       | Tracer composition   |
|   | M27 Tracer       | Tracer composition   |
| Cartridge, .45 caliber,<br>Pistol                           | M1911, Ball      | 5.6 grains Powder 4648   |
|   |                  | Copper Plated Steel Bullet<br>Gilding Plated Steel Bullet        |
| Cartridge, .50 caliber,<br>Machine Gun                      | M2, Ball         | Soft steel   |
|   | M2, AP           | Tungsten chrome steel  |
|   | M1, M10 TR       | Tracer composition   |
|   | M21, M17 TR      | Tracer composition   |
|   | M20, API-T       | Incendiary mixture   |
|   | M1, M23 INC      | Incendiary mixture   |
|   | M8, API          | Incendiary mixture   |

**TABLE 8-1**  
**AMMUNITION USED AND EXPLOSIVES/CHEMICAL FILLER**

| Item Type/Model            |                            | Filler\Weight          |                     |
|----------------------------|----------------------------|------------------------|---------------------|
| Rocket, 2.36"              | M6A3 AT                    | .47# 50-50 Pentolite   | BD M18,             |
|                            |                            | .026# Cast TNT         | BD M400,<br>BD M401 |
|                            | M10A1 Smoke                | .89# White Phosphorus  | BD M18<br>BD M401   |
| Grenade, Hand              | MK 2, HE                   | .04625# EC Powder      | M204                |
|                            |                            | .1075# TNT             | M10A2               |
|                            | MK 3A1, A2, HE             | .4269# TNT             | M6A2, M6A4D         |
|                            | AN-M8, Smoke, HC           | .67# Hexeclorethane    | M200A1              |
|                            | M15, Smoke, WP             | .957# White Phosphorus | M204                |
| M18 Series, Smoke, Colored | .72# Smoke mixture         | M200A1                 |                     |
| Grenade, Rifle             | M9A1, AT                   | .25# Pentolite         | BD Impact           |
|                            | M19A1, Smoke, WP           | .53# White Phosphorus  | BD Impact           |
|                            | M22 Series, Smoke, Colored | .4# Smoke Mixtures     | BD Impact           |
| Shell, 60mm Mortar         | M49A2, HE                  | .34# TNT               | PD M52              |
|                            | M83A1, Illuminating        | .526# Illuminant       | M65A1               |
|                            | M302, Smoke, WP            | .75# White Phosphorus  | PD M8               |
| Shell, 81mm Mortar         | M43A1, HE                  | Steel                  |                     |
|                            |                            | 1.23# TNT              | PD M52A1            |
|                            | M56, HE                    | Steel                  |                     |
|                            |                            | 4.3# TNT               | PD M53A1            |
|                            | M301, Illum                | Steel                  |                     |
|                            |                            | 2.64# Illuminant       | Time M84            |
| M57, Smoke, WP             | Steel                      |                        |                     |
|                            | 4.09# White Phosphorus     | PD M52A1               |                     |
| M57, Smoke, FS             | Steel                      |                        |                     |
|                            | 4.59# Sulfur Trioxide      | PD M52A1               |                     |
| Torpedo, Bangalore         | M1A1                       | Steel                  |                     |
|                            |                            | 7.6# 80/20 Amatol      |                     |
|                            |                            | .82# TNT               |                     |
| Dynamite, Military         | M1                         | Waxed Cardboard        |                     |
|                            |                            | Sawdust                |                     |
|                            |                            | 40-60% Nitroglycerine  |                     |
| Block, Demolition          | M2                         | 2.41# 75/25 Tetrytol   |                     |

**TABLE 8-1**  
**AMMUNITION USED AND EXPLOSIVES/CHEMICAL FILLER**

| Item<br>Type/Model          |            | Filler\Weight  |
|-----------------------------|------------|--|
| Block, Demolition           | M3         | 2.25# Comp C-3   |
| Block, Demolition           | M4         | .50# Comp C-3  |
| Activator                   | M1         | 36 grains Tetryl   |
| Cap, Blasting, Electric     | Various    | Tetryl   |
| Cap, Blasting, Non-Electric | Various    | Tetryl   |
| Cord, Detonating            | Various    | 7#/100 feet PETN Core  |
| Fuse, Time                  | Various    | Black Powder Core  |
| Signal, White Star, Para    | M17 Series | Sheet Metal<br>.16# Illuminant<br>16 grains Black Powder<br>15 Grains Smokeless Powder |
| Signal, White Star, Cluster | M18 Series | Sheet Metal<br>.25# Illuminant<br>16 grains Black Powder<br>17 grains Smokeless Powder |
| Signal, Green Star, Para    | M19 series | Sheet Metal<br>.16# Illuminant<br>15 Grains Smokeless Powder<br>16 grains Black Powder |
| Signal, Green Star, Cluster | M20 series | Sheet Metal<br>.25# Illuminant<br>15 grains Smokeless Powder<br>16 grains Black Powder |
| Signal, Amber Star, Para    | M21 Series | Sheet Metal<br>.13# Illuminant<br>15 grains Smokeless Powder<br>16 grains Black Powder |
| Signal, White Star, Para    | M17 Series | Sheet Metal<br>.16# Illuminant<br>16 grains Black Powder<br>15 Grains Smokeless Powder |
| Signal, White Star, Cluster | M18 Series | Sheet Metal<br>.25# Illuminant<br>16 grains Black Powder<br>17 grains Smokeless Powder |

**TABLE 8-1**  
**AMMUNITION USED AND EXPLOSIVES/CHEMICAL FILLER**

| Item                        | Type/Model | Filler\Weight  |
|-----------------------------|------------|--|
| Signal, Green Star, Para    | M19 series | Sheet Metal<br>.16# Illuminant<br>15 Grains Smokeless Powder<br>16 grains Black Powder |
| Signal, Amber Star, Para    | M21 Series | Sheet Metal<br>.13# Illuminant<br>15 grains Smokeless Powder<br>16 grains Black Powder |
| Signal, Amber Star, Cluster | M22 Series | Sheet Metal<br>.22# Illuminant<br>17 grains Smokeless Powder<br>16 grains Black Powder |
| Signal, Red Star, Para      | M51 Series | Sheet Metal<br>.13# Illuminant<br>15 grains Smokeless Powder<br>16 grains Black Powder |
| Signal, Red Star, Cluster   | M52 Series | Sheet Metal<br>.23# Illuminant<br>17 grains Smokeless Powder<br>16 grains Black Powder |
| Flare, Trip                 | M49        | Sheet Metal<br>.7# Illuminant  |
| Flare, Trip, Parachute      | M48        | Sheet Metal<br>.5# Propelling Powder   |
| Simulator                   | M80        | Cardboard Tube<br>.0005# Photoflash Powder<br>25 grains Black Powder                   |
| Igniters                    | Various    | Igniter Compositions   |
| Primers                     | Various    | Primer Compositions  |
| Tracer Elements             | Various    | Tracer Compositions  |

**TABLE 8-1**  
**AMMUNITION USED AND EXPLOSIVES/CHEMICAL FILLER**

| Item                  |              |                                       |
|-----------------------|--------------|---------------------------------------|
| Type/Model            |              | Filler\Weight                         |
| NAVY MINES            |              |                                       |
|                       | MK 2         | 175 lb. guncotton                     |
|                       | MK 3         | 120 lb. TNT                           |
|                       | MK 4         | 250 lb. TNT                           |
|                       | MK 5         | 500 lb. TNT                           |
|                       | MK 6         | 300 lb. TNT                           |
| NAVY GUN AMMUNITION   |              |                                       |
| Bulk Smokeless Powder | Various      | Bagged, Canned and Bulk               |
| Primers               | MK 10 Mod 9  | 10 grams BP<br>26 grams Cannon powder |
|                       | MK 13        | 265 grams Primer mixture              |
|                       | MK 15 Mod 1  | 30 grams BP                           |
|                       | MK 19        | 28 grains BP                          |
|                       | MK 21 Mod 2  | 64 grains BP                          |
|                       | Tracers      | MK 5                                  |
| MK 6                  |              | Tracer composition                    |
| MK 8                  |              | Tracer composition                    |
| MK 9                  |              | Tracer composition                    |
| 1 pounder             | Common       | 180 grains BP                         |
| 3 pounder             | MK I         | .13 lb. BP                            |
| 6 pounder             | Common       | .24 lb. BP                            |
| 20mm                  | MK 3 HE      | .02 lbs Tetryl                        |
|                       | MK 4 & 7 HET | .01 lb. Tetryl                        |
|                       | MK 8 AP      | Steel                                 |
| 40mm                  | MK 1 & 2 AA  | .1 lb. Cast TNT                       |
| 1"                    | MK 1         | .04 lb. Explosive D                   |

**TABLE 8-1**  
**AMMUNITION USED AND EXPLOSIVES/CHEMICAL FILLER**

| Item<br>Type/Model |               | Filler\Weight               |
|--------------------|---------------|-----------------------------|
| 1"                 | MK 2          | .034 lb. Explosive D        |
| 3"                 | MK 14 HE      | 1.06 lb. TNT                |
| 3"/50              | MK 16 HE      | .75 lb. Cast TNT            |
|                    | MK 21 Illum   | Magnesium flare composition |
|                    | MK 23 & 27 AA | .74 lb. Cast TNT            |
| 4"/50              | MK 14 Illum   | Magnesium composition       |
|                    | MK 15 HC      | 2.71 lb. Explosive D        |
|                    | EX-1          | 1.0 lb. Explosive D         |
| 5"/38              | MK 25 Illum   | Magnesium composition       |
|                    | MK 27 Illum   | Magnesium composition       |
|                    | Mk 28 & 36 AA | 7.3 lb. Explosive D         |
|                    | Mk 30 Illum   | Magnesium composition       |
|                    | MK 31 & 35 AA | 7.2 lb. Explosive D         |
| 5"/38              | Mk 32 Common  | 2.6 lb. Explosive D         |
|                    | Mk 37 Common  | 1.8 lb. Explosive D         |
|                    | EX-1 HC       | 3.6 lb. Explosive D         |
| 6"/47              | MK 22 & 32    | Magnesium composition       |
|                    | MK 27         | 2.2 lb. Explosive D         |
|                    | MK 34 HC      | 13.22 Explosive D           |
|                    | MK 36 AP      | Steel                       |
| 8"/55              | MK 13,14,15   | 11.46 lb. Explosive D       |
|                    | MK 19 AP      | 3.64 Explosive D            |
|                    | MK 21 AP      | 5.03 lbs Explosive D        |
|                    | MK 24 HC      | 21.34 lb. Explosive D       |

**TABLE 8-1**  
**AMMUNITION USED AND EXPLOSIVES/CHEMICAL FILLER**

| Item<br>Type/Model   |                 | Filler\Weight          |
|----------------------|-----------------|------------------------|
| 12"/50               | MK 15 AP        | 22.5 lb. Explosive D   |
|                      | MK 18 AP        | 17.10 lb. Explosive D  |
|                      | MK 16 HC        | 58.2 lb. Explosive D   |
|                      | MK 17 HC        | 79.44 lb. Explosive D  |
| 14"/45               | MK 8 AP         | 29.5 lb. Explosive D   |
|                      | MK 9 HE         | 105 lbs Explosive D    |
|                      | MK 16 AP        | 22.5 lb. Explosive D   |
|                      | MK 19 HC        | 104.21 lbs Explosive D |
| 16"                  | MK 3 AP         | 50 lb. Explosive D     |
|                      | MK 5 AP         | 33.6 lbs Explosive D   |
|                      | MK 8 AP         | 40.5 lb. Explosive D   |
|                      | EX-1 HC         | 153.5 lb. Explosive D  |
| <u>NAVY FUZES</u>    |                 |                        |
| Base Detonating Fuze | MK 2 Mod 2      | Tetryl Booster         |
|                      | MK 3 Mods 1 & 2 | TNT Booster            |
|                      | MK 9            | TNT Booster            |
|                      | MK 11 Mod 8     | Tetryl Booster         |
|                      | MK 13           | Tetryl Booster         |
|                      | MK 19           | Tetryl Booster         |
|                      | MK 20           | Tetryl Booster         |
| MK 21                | Tetryl Booster  |                        |

**TABLE 8-1**  
**AMMUNITION USED AND EXPLOSIVES/CHEMICAL FILLER**

| Item<br>Type/Model   |                 | Filler\Weight               |
|----------------------|-----------------|-----------------------------|
|                      | MK 23           | Tetryl Booster              |
|                      | MK 28           | Tetryl Booster              |
| Nose Detonating Fuze | MK 7            | Tetryl Booster              |
|                      | MK 12           | Tetryl & No. 74 Pom Pom Mix |
|                      | MK 26 Mod 1,2,3 | Tetryl & Lead Azide         |
|                      | MK 27           | Tetryl & Lead Azide         |
|                      | MK 29           | Lead Azide                  |
|                      | MK 30           | Lead Azide                  |
|                      | MK 34           | Lead Azide & Tetryl         |
|                      | MK 35           | Mercury Fulminate & Tetryl  |
| Base Ignition Fuze   | MK 2 Mod 8,9    | Black Powder                |
|                      | MK 8 Mod 4,5,6  | Black Powder                |
|                      | MK 10 Mod 3,4,9 | Black Powder                |
| Nose Ignition Fuze   | MK 11 Mod 1-5   | Black Powder                |
|                      | MK 15           | Black Powder                |
|                      | MK 16 Mod 2,3,5 | Black Powder                |
|                      | MK 18 Mod 1-4   | Black Powder                |
|                      | MK 22           | Black Powder                |
|                      | MK 25           | Black Powder                |

**TABLE 8-1**  
**AMMUNITION USED AND EXPLOSIVES/CHEMICAL FILLER**

| Item<br>Type/Model              |                  | Filler\Weight                           |
|---------------------------------|------------------|---|
| <u>CHEMICAL MUNITIONS</u>       |                  |   |
| War Gas ID Kit<br>Instructional | M1               | H, CG, PS, CN, L<br>DM, HS, DP          |
| War Gas ID Kit<br>Detonation    | M1               | H, L, PS, CG                            |
| Grenade, Hand                   | M6               | CN-DM                                   |
| <u>OTHER ITEMS</u>              |                  |   |
| Missile, Guided                 | RIM-2, "Terrier" | Conventional warhead<br>Proximity Fuzed |
| Torpedos                        | MK 14-3A         | 643 lb. Torpex                          |
|                                 | MK 16-6 & 7      | 746 lb. Torpex                          |
|                                 | MK 27-4          | 95 lbs Torpex                           |
|                                 | MK 28-3          | 585 lb. Torpex                          |

**b. Chemical Data of Ordnance Fillers**

Table 8-2 has been developed to establish a list of typical explosive/chemical compounds used in the ordnance and chemical items cited in Table 8-1.

**Table 8-2**  
**SUMMARY OF SITE ORDNANCE FILLERS**

| EXPLOSIVE MATERIEL                        | SYNONYM(S)                   | CHEMICAL FORMULA       |
|---|------------------------------|------------------------|
| Smokeless Powder                          | FNH Powder                   |                        |
| Various percentages of:<br>Nitrocellulose | Nitrocotton                  | $C_3H_5(ONO_2)_3$      |
| Dinitrotoluene                            | DNT                          | $C_6H_2CH_3(NO_2)_2$   |
| Dibutylphthalate                          | Gelling Agent                | $C_6H_4(CO_2C_4H_9)_2$ |
| Diphenylamine                             | DPA; Stabilizer              | $(C_6H_5)_2NH$         |
| Black Powder                              |                              |                        |
| 74% Potassium Nitrate                     | Niter, Salt Peter            | $KNO_3$                |
| 11% Sulfur                                |                              | S                      |
| 16% Charcoal                              |                              | C                      |
| TNT                                       | 2,4,6 Trinitrotolulene       | $C_6H_2CH_3(NO_2)_3$   |
| RDX                                       |                              | $C_3H_6N_6O_6$         |
| Torpex                                    |                              |                        |
| 42% RDX                                   |                              |                        |
| 40% TNT                                   |                              |                        |
| 18% Aluminum                              |                              | Al                     |
| Explosive D                               | Ammonium Picrate             | $C_6H_6N_4O_7$         |
| Pentolite                                 |                              |                        |
| 50% TNT                                   |                              |                        |
| 50% PETN                                  |                              |                        |
| PETN                                      | Pentaerythritetetranitrate   | $C(CH_2ONO_2)_4$       |
| Lead                                      |                              | Pb                     |
| Antimony                                  |                              | Sb                     |
| Steel                                     |                              | Fe                     |
| Phosgene                                  | CG, Carbonyl Chloride        | $COCl_2$               |
| Mustard                                   | H, Dichlorethylsulfide       | $(ClCH_2CH_2)_2S$      |
| Adamsite                                  | DM, Diphenylaminechlorarsine | $NH(C_6H_5)_2AsCl$     |

Table 8-2  
SUMMARY OF SITE ORDNANCE FILLERS

| EXPLOSIVE MATERIEL             | SYNONYM(S)                 | CHEMICAL FORMULA                                   |
|--------------------------------|----------------------------|--|
| Lewisite                       | L, Chlorvinyldichlorarsine | ClCH:CHAsCl <sub>2</sub>                           |
| Chlorpicrin                    | PS, Nitrochlorform         | C(NO <sub>2</sub> )Cl <sub>3</sub>                 |
| Chloracetophenone              | CN, Tear gas               | C <sub>6</sub> H <sub>5</sub> COCH <sub>2</sub> Cl |
| Igniter Compositions*          |                            |  |
| I-136 & 136A                   |                            |  |
| 10% Calcium Resinate           |                            |  |
| 90% Strontium Peroxide         |                            | SrO <sub>2</sub>                                   |
| I-194                          |                            |  |
| 94% Igniter Composition I-136  |                            |  |
| 6% Magnesium Powder            |                            | Mg   |
| I-276                          |                            |  |
| 84% Barium Peroxide            |                            | BaO <sub>2</sub>                                   |
| 16% Magnesium Powder           |                            | Mg   |
| I-280                          |                            |  |
| 85% Igniter Composition I-136A |                            |  |
| 15% Magnesium Powder           |                            | Mg   |
| I-508                          |                            |  |
| 79% Barium Peroxide            |                            | BaO <sub>2</sub>                                   |
| 15% Magnesium Powder           |                            | Mg   |
| Tracer compositions compounds* |                            |  |
| Barium Nitrate                 |                            | BaN  |
| Barium Peroxide                |                            | BaO <sub>2</sub>                                   |
| Magnesium Powder               |                            | Mg   |
| Sodium Nitrate                 |                            | NaNO <sub>3</sub>                                  |
| Calcium Silicide               |                            | CaSi   |
| Charcoal                       |                            |  |
| Linseed Oil                    |                            |  |

**Table 8-2  
SUMMARY OF SITE ORDNANCE FILLERS**

| EXPLOSIVE MATERIEL | SYNONYM(S) | CHEMICAL FORMULA                    |
|--------------------|------------|-------------------------------------|
| Mercury Fulminate  |            | Hg (ON) <sub>2</sub>                |
| Lead Azide         |            | Pb (N <sub>3</sub> ) <sub>2</sub>   |
| Sulfur Trioxide    | FS Smoke   | S <sub>2</sub> O <sub>3</sub>       |
| Hexechlorethane    | HC Smoke   | Zn + C <sub>2</sub> Cl <sub>6</sub> |
| White Phosphorus   | WP Smoke   | P                                   |
| Tungsten           |            | W                                   |

\*Most frequently used chemical compositions and their major ingredients

9. OTHER ENVIRONMENTAL HAZARDS

a. **Hazardous, Toxic, and Radiological Waste**

During the site visit, there were no additional potential CON/HTRW considerations noted. CON/HTRW concerns are addressed in DERP-FUDS Project Report Number D01MA002201.

b. **Building Demolition/Debris Removal**

During the site visit, no additional potential BD/DR projects were noted for consideration. BD/DR concerns are addressed in DERP-FUDS Project Report Number D01MA002202.

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER DOMA002204

APPENDIX A

REFERENCE SOURCES

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations   | Name   | Telephone      | Support           |
|---|--|----------------|-------------------|
| <b>GOVERNMENT SOURCES</b>   |  |                |                   |
| <b>FEDERAL AGENCIES</b>   |  |                |                   |
| <b>DEPARTMENT OF DEFENSE</b>  |  |                |                   |
| Defense Technical Information Center (DTIC)<br>Cameron Station<br>Alexandria, VA 22304                              | On-Line  | (800) 225-3842 | Automated search. |
| Defense Library On Disk (DLOD)<br>National Defense Library<br>Washington, DC 20319-6000                             | System Librarian                               | (202) 287-9474 | Automated search. |
| Defense Logistics Studies Information Exchange<br>U.S. Army Logistics Management College<br>Fort Lee, VA 23801-6043 | On-Line  | (804) 765-4007 | Automated search. |
| National Personnel Records Center<br>9700 Page Ave<br>St. Louis, MO 63132   | Bill Seibert                                   | (314) 538-4085 | No information.   |
| Center for Military History<br>1099 14th St. NW<br>Washington, DC 20356   | Hannah Zeidlik                                 | (202) 504-5416 | No information.   |
| <b>ARMY</b>   |  |                |                   |
| U.S. Army Armament, Munitions and Chemical Command<br>ATTN: AMSMC-HO<br>Rock Island, IL 61202                       | Ralph Krippner<br>Archivist, Historical Office | (309) 782-1272 | Referrals.        |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations  | Name   | Telephone      | Support              |
|--|--|----------------|----------------------|
| <b>ARMY cont.</b>  |  |                |                      |
| U.S. Army Military History<br>Institute<br>Carlisle Barracks<br>Carlisle, PA 17013-5008  | John J. Slonaker<br>Chief, Historical<br>Reference Branch<br>Louise Friend | (717) 254-3123 | Documents, research. |
| U.S. Army Ordnance Museum<br>ATTN: ATSL-SE-M<br>Aberdeen Proving Ground, MD<br>21005-5201  | Armando Framarini  | (301) 278-3602 | Ordnance manuals.    |
| Washington Military Records<br>Washington, DC  | Ken Schlessinger   | (202) 501-5385 | Referrals.           |
| U.S. Army Corps of Engineers,<br>New England District<br>ATTN: CENED-RE-AM<br>424 Trapelo Road<br>Waltham, MA 2254-9149                | Anne Laster  | (617) 334-3233 | Soil survey, maps.   |
| HQ, U.S. Army Corps of<br>Engineers - Office of History<br>Humphreys Engineering Center<br>7701 Telegraph Road<br>Alexandria, VA 22310 | Martin Gordon  | (703) 355-3558 | No information.      |
| Army Safety Management<br>Information System (ASMIS)<br>Fort Rucker, AL 36322  | (ASMIS)  | (815) 273-8744 | No information.      |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations  | Name   | Telephone  | Support  |
|--|--|--|--|
| <b>ARMY cont.</b>  |  |  |  |
| 542d EODCT<br>Fort Dix, NJ 08640   | MSG James  | (609) 562-5940   | No EODIRs.   |
| Environmental Office<br>Fort Devens, MA 01433  | Michael S. Barry   | (508) 796-2609   | HTRW information.                                    |
| <b>NAVY</b>  |  |  |  |
| Navy Historical Center<br>Operational Archives<br>Washington Navy Yard<br>Washington, DC 20374 | Kathy Lloyd<br>Caval Cante                                       | (202) 433-3270<br>(202) 433-3170                       | Historical records.<br>No information.               |
| U.S. Naval War College<br>686 Cushing Rd.<br>Newport, RI 02841                                 | Maggie Rauch   | (401) 841-4551   | No information.                                      |
| Portsmouth Naval Shipyard<br>Code: 870H<br>Portsmouth, NH 03801-5000                           | Jim Dolph  | (207) 438-3550   | No information.                                      |
| <b>AIR FORCE</b>   |  |  |  |
| U.S. Air Force Historical<br>Research Agency<br>Air University Library<br>Maxwell AFB, AL      | LT Ryan Peters<br>Terry Hawkins<br>Jim Kitchens<br>Essie Roberts | (205) 953-5733<br><br>(205) 953-5068<br>(205) 953-5834 | No information.<br><br>No information.<br>Referrals. |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations  | Name                                      | Telephone      | Support  |
|--|---|----------------|--|
| <b>AIR FORCE cont.</b>   |   |                |  |
| Department of the Air Force<br>ATTN: AFREA/MI<br>172 Luke Avenue, Suite 104<br>Bolling AFB, DC | William Edwards                           | (202) 767-4383 | No information.                                    |
| Department of the Air Force<br>ATTN: AFREA/MI<br>Suite 1004<br>Bolling AFB, DC                 | John Peterson                             | (202) 767-4093 | No information.                                    |
| Public Affairs Office<br>Hanscom Field AFB<br>Vandenberg Drive<br>Lexington, MA 02173          | Dave Condon                               | (617) 377-4973 | No information.                                    |
| <b>GENERAL SERVICES ADMINISTRATION</b>   |   |                |  |
| National Archives<br>Southeast Region<br>1577 St. Joseph Ave.<br>East Point, GA                | Gail Peters<br>Dave Hilkert<br>Archivists | (404) 763-7477 | Historical records.                                |
| National Archives<br>Mid-Atlantic Region<br>9th and Market, Room 1350<br>Philadelphia, PA      | Staff                                     | (215) 608-3000 | Referrals.   |
| National Archives<br>Military Reference Branch<br>Washington, DC 20428                         | Rebecca Livingston                        | (202) 501-5671 | Record groups 18, 107, 153,<br>160, 341, 394, 407. |
| National Archives-Suitland<br>Reference Branch<br>Suitland, MD 20409                           | Dave Giordano                             | (301) 763-7410 | Record groups 156 and 338.                         |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations  | Name             | Telephone      | Support                              |
|--|------------------|----------------|--------------------------------------|
| <b>GENERAL SERVICES ADMINISTRATION cont.</b>   |                  |                |                                      |
| National Archives<br>Cartographic & Architectural Br.<br>8601 Adelphi Road<br>College Park, MD 20740 | James Martin     | (301) 713-7028 | Record groups 30, 71, 77,<br>and 92. |
| National Archives<br>Cartographic & Architectural Br.<br>Washington, DC                              | Dave Hilkerk     | (404) 763-7477 | No information.                      |
| National Archives<br>Records Administration<br>Still Picture Branch<br>Washington, DC                | Adrienne Perkins | (202) 501-5455 | No information.                      |
| National Archives<br>New England Region<br>380 Trapelo Road<br>Waltham, MA 02154                     | Stan Tozeszki    | (617) 647-8100 | Documents.                           |
| Smithsonian National Air<br>and Space Museum<br>Historical Research Division<br>Washington, DC 20560 | Paul McCutcheon  | (202) 357-3133 | No information.                      |
| <b>ENVIRONMENTAL PROTECTION AGENCY</b>   |                  |                |                                      |
| Region 1 Library<br>JFK Federal Bldg<br>Boston, MA 02203   | Judy Allison     | (617) 565-3300 | No information.                      |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations   | Name               | Telephone      | Support             |
|---|--------------------|----------------|---------------------|
| <b>DEPARTMENT OF COMMERCE</b>   |                    |                |                     |
| National Technical<br>Information Center (NTIC)<br>5285 Port Royal Rd.<br>Springfield, VA 22161                 | Computer Database  | (703) 487-4650 | No information.     |
| <b>LIBRARY OF CONGRESS</b>  |                    |                |                     |
| Geography and Map Division<br>Library of Congress<br>Washington, DC   | Tom DeClaire       | (202) 707-8530 | Referrals and maps. |
| <b>DEPARTMENT OF AGRICULTURE</b>  |                    |                |                     |
| Agricultural Stabilization<br>and Conservation Service<br>319 Littleton Road<br>Suite 205<br>Westford, MA 01886 | Dan Lenthall       | (508) 692-0790 | Soil survey.        |
| <b>DEPARTMENT OF THE INTERIOR</b>   |                    |                |                     |
| Wildlife Refuge System<br>Region 5<br>300 Westgate Drive<br>Hadley, MA 01035                                    | Don Fricke         | (423) 253-8568 | No information.     |
| National Park Service<br>North Atlantic Region<br>15 State Street<br>Boston, MA 02109                           | Richard Tourangeau | (617) 223-5199 | No information.     |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations   | Name             | Telephone      | Support               |
|---|------------------|----------------|-----------------------|
| <b>STATE AGENCIES</b>   |                  |                |                       |
| SHPO - Massachusetts<br>Historical Commission<br>80 Boylston Ave<br>Boston, MA 02116                  | Judith McDonough | (617) 727-8470 | No information.       |
| Natural Heritage and<br>Endangered Species Program<br>100 Cambridge Street<br>Boston, MA 02202        | Ann Kelly        | (617) 727-9194 | Endangered listing.   |
| State Library of<br>Massachusetts<br>341 State House<br>Boston, MA 02133                              | Kim Reilly       | (617) 727-2590 | No information.       |
| Department of Economic<br>Development<br>7 Jackson Walkway<br>Briefing Center<br>Providence, RI 02903 | Chet Browning    | (401) 277-2601 | Maps.                 |
| Department of Environmental<br>Protection - Federal Facilities<br>1 Winter Street<br>Boston, MA 02108 | Albe Simenas     | (617) 292-5507 | HTRW information.     |
| Massachusetts Bay Program<br>Metro Area Planning Council<br>60 Temple Place<br>Boston, MA 02111       | William B. Clark | (617) 451-2770 | Wetlands information. |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations  | Name  | Telephone      | Support               |
|--|---|----------------|-----------------------|
| University of Massachusetts<br>High Street<br>Hanson, MA 02341-0658                          | Faith L. Burbank                              | (617) 293-3541 | Wetlands information. |
| State Fire Marshal's Office  | Mike Costello                                 | (617) 566-4500 | No information (I-7). |
| <b>NATIONAL GUARD BUREAU</b>   |   |                |                       |
| Military Research Records<br>Center<br>Suite 105N<br>1250 Hancock Street<br>Quincy, MA 02169 | Jim Fahey                                     | (508) 651-5700 | No information.       |
| HQ, 1st Brigade<br>459 Bedford St<br>Lexington, MA 02178                                     | MSG Gruber                                    | (617) 861-0623 | No information.       |
| HQ, 26th Division<br>Minuteman Lane<br>Lexington, MA 02178                                   | Susan Howarth                                 | (800) 362-4452 | No information.       |
| University of Buffalo<br>Listserver  | On-Line Discussion<br>List for WWII           | Internet       | No information.       |
| University of Kansas<br>Listserver   | On-Line Discussion<br>List f/Military History | Internet       | No information.       |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations  | Name            | Telephone      | Support                              |
|--|-----------------|----------------|--------------------------------------|
| <b>LOCAL AGENCIES</b>  |                 |                |                                      |
| Hingham Public Library<br>66 Leavitt Street<br>Hingham, MA 02043                                 | Jean Beatty     | (617) 741-1406 | Maps, journals.                      |
| Boston Public Library<br>Government Documents Dept.<br>666 Boylston Ave<br>Boston, MA 02117      | Gail Wilson     | (617) 536-5400 | No information.                      |
| Register Of Deeds<br>County of Plymouth<br>P.O. Box 3535<br>Russell Street<br>Plymouth, MA 02361 | Mark Robinson   | (508) 830-9220 | Deeds.                               |
| Conservation Commission<br>7 East Street<br>Hingham, MA 02043                                    | Pine DuBois     | (617) 741-1445 | Rare and endangered<br>species list. |
| Plymouth Public Library<br>Plymouth, MA 02360  | Volunteer Staff | (508) 830-1750 | Site geology.                        |
| Assessor's Office<br>7 East Street<br>Hingham, MA 02043  | Denise Connally | (617) 741-1455 | Plat maps.                           |
| Hingham Police Dept.<br>169 Lincoln Street<br>Hingham, MA 02043                                  | Thomas Souther  | (617) 749-1212 | No information.                      |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Organizations   | Name             | Telephone      | Support             |
|---|------------------|----------------|---------------------|
| <b>NON-GOVERNMENT SOURCES</b>   |                  |                |                     |
| <b>NATIONAL</b>   |                  |                |                     |
| DIALOG Information Services, Inc.<br>3460 Hillview Avenue<br>Palo Alto, CA 94304  | (DIALOG)         | (202) 274-6434 | Automated searches. |
| On-Line Computer Library<br>6565 Frantz Road<br>Dublin, OH 43017-5878             | (OCLC)           | (800) 848-5878 | Automated searches. |
| Scientific and Technical Information Library Auto System<br>Huntsville, AL 35806  | (STILAS)         | (815) 273-8771 | No information.     |
| <b>LOCAL</b>  |                  |                |                     |
| Massachusetts Historical Society Library<br>1154 Boylston Ave<br>Boston, MA 02215 | Virginia Smith   | (617) 536-1608 | No information.     |
| Hingham Journal<br>73 South Street<br>Hingham, MA 02043                           | Charlene Vandini | (617) 749-0031 | No information.     |
| Hingham Historical Society<br>29 Pleasant Street<br>Hingham, MA 02043             | Gene Chamberlain | (617) 749-2731 | Interview I-4.      |

**REFERENCE SOURCES**

The following organizations/personnel are acknowledged for their support.

| Name                     | Address                                 | Telephone      | Support                                  |
|--------------------------|---|----------------|--|
| <b>LOCAL INDIVIDUALS</b> |   |                |  |
| Bruce Pinel              | 171 New Bridge St.<br>Hingham, MA 02043 | (617) 749-4268 | Interview I-5,<br>photographs.           |
| John P. Richardson       | 9 Fort Hill St.<br>Hingham, MA 02043    | (617) 749-1651 | Interview I-1.                           |
| Tom Wallace              | 7 East Street<br>Hingham, MA 02043      | (617) 741-1440 | Historical study.                        |
| Gene Chamberlain         | 29 Pleasant Street<br>Hingham, MA 02043 | (617) 749-2731 | Historical background,<br>interview I-4. |
| Obie Johnson             | 35 North Street<br>Hingham, MA 02043    | (617) 749-2738 | Interview I-3.                           |
| Frank Sheltry            | 16 Park Circle<br>Hingham, MA 02043     | (617) 749-1101 | Interview I-6.                           |

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX B

GENERAL REFERENCES AND ABSTRACTS

## APPENDIX B

### GENERAL REFERENCES AND ABSTRACTS

- B-1 War Department, Technical Manual of Military Explosives, TM 9-2900, undated.
- B-2 Ammunition and Explosives Safety Standards, DOD 6055.9-STD with chgs 1 and 2, July 1984.
- B-3 Department of the Army, Military Explosives, TM 9-1300-214, with chg 1, September 1984.
- B-4 War Department, Ammunition Inspection Guide, TM 9-1904, 2 March 1944.
- B-5 History of Modern U.S. Military Small Arms Ammunition Volume II, Hackley, Woodin and Scranton, 1969 (D-1).
- B-6 U.S. Naval Weapons, Norman Friedman, Naval Institute Press, 1982.
- B-7 Letter, Massachusetts Historical Commission, subject: FUDS in Massachusetts, 26 October 1994.
- B-8 U.S. Department of Agriculture, Soil Survey of Plymouth County, Massachusetts, Soil Conservation Service, July 1969.
- B-9 Pamphlet, Geologic History of Cape Cod, U.S. Department of Interior, undated.
- B-10 U.S. Navy Bureau of Ordnance in World War II, Buford Rowland and William B. Boyd, Bureau of Ordnance, Department of the Navy, 1954.
- B-11 Letter, Massachusetts Division of Fisheries and Wildlife, subject: Rare Species Occurring in the Vicinity of Hingham, Massachusetts, 11 December 1993.
- B-12 DERP-FUDS INPR, DOMA0022, 10 November 1993, CENED (F-1).
- B-13 Map, Weymouth, Massachusetts, 42071-D1-TM-025, U.S. Department of the Interior Geologic Survey 1984.
- B-14 Ordnance Department, Complete Round Charts, 9 August 1941.
- B-15 Ordnance Department, Complete Round Charts, 1 May 1947.

- B-16 Ordnance Department, Complete Round Charts,  
15 October 1959.
- B-17 United States Navy and Marine Corps Bases, Domestic,  
Paolo Coletta, Greenwood Press, 1985.
- B-18 U.S. Army Corps of Engineers, Rock Island District, Site  
Safety Plan, appendix B-13, Hingham Naval Ammunition  
Depot, 8 September 1994.
- B-19 Aeronautical Charts, Boston UV-10, November 1943, 1944,  
1945.
- B-20 Coast and Geodetic Survey Chart, Number 13270, Boston  
Harbor, Massachusetts, 27 February 1993.
- B-21 Coast and Geodetic Survey Chart, Number 13267,  
Massachusetts Bay, 1 January 1994.
- B-22 Hingham Naval Ammunition Depot 1906-1972, Compiled by  
Earle Lane, 1975.
- B-23 Historical Study of Naval Ammunition Depot for DERP  
Project, Richard Kanaski, CENED, 1985.
- B-24 "Rise and Fall of Hingham Ammo Depot", Alfred K. Schroeder,  
Journal of the Council of America's Military Past,  
May 1985.
- B-25 Map, Department of the Interior, Geologic Survey,  
Weymouth, Massachusetts, 1941.
- B-26 Map, Department of the Interior, Geologic Survey,  
Weymouth, Massachusetts, 1949.
- B-27 Projectiles and Fuzes, U.S. Navy Bomb Disposal School and  
U.S. Army Bomb Disposal School, 1 April 1943.
- B-28 Map, Hingham Naval Ammunition Magazine, 30 June 1914. (L1)
- B-29 Map, Hingham Naval Ammunition Magazine, 30 June 1942. (L2)
- B-30 Map, Hingham Naval Ammunition Magazine, 30 June 1951. (L3)
- B-31 Boston Post, 23 April 1914, Hingham Magazine Working  
Overtime (H-1).
- B-32 Patriot-Ledger, 18 August 1975, Shell Casing found in  
Hingham (H-2).

- B-33 Shot and Shell, 13 June 1952, Depot Products Displayed (H-3).
- B-34 Shot and Shell, March 1954, Souvenir Issue (H-4).
- B-35 Boston Traveler, 13 April 1966, Hingham Officials Fight Proposed Navy Housing (H-5).
- B-36 Boston Globe, 15 April 1966, Naval Depot Row may go to Top (H-6).
- B-37 Letter, CONAD, 16 December 1946, Elimination of Overstorage (F-1).
- B-38 Letter, CONAD, 18 December 1946, Restowage of Bulk Smokeless Powder (F-2).
- B-39 Letter, CONAD, 19 December 1946, Ammunition Preservation and Depot Workload (F-3).
- B-40 Shipping schedule with War Gas ID kits Manifested, 24 March 1943 (F-4).
- B-41 Letter, COFND, 28 March 1945 Disposal of Ammunition by Dumping in Deep Water (F-5).
- B-43 Report of September Production, September 1945 (F-6).
- B-44 Letter, CONAD, 18 September 1946, Unsafe Characteristics of Building 135 Powder Elevator (F-7).
- B-45 Letter, 3 February 1945, Installation of Vaccum Dust Collecting System, D Sifting Building (F-8).
- B-46 Appropriation Document, November 1943-October 1944, for the procurement and installation of equipment for the loading and assembly of 20mm ammunition (F-9).
- B-47 Report of Stowage and Disrtibution showing Stowage of War Gas ID Kits, 2 January 1945 (F-10).
- B-48 Request for Disposition of CN-DM Grenades by dumping at sea, 6 June 1946, and showing the items were expended by dumping at sea on 10 June 1946 (F-11).
- B-49 Letter, CBUORD, 31 August 1945, Status of Rocket Motor Assembly Building (F-12).
- B-50 Monthly Stowage Report, 1 July 1945. Shows large and diverse stockage posture (F-13).

- B-51 Report of Excess, General Services Administration, 22 November 1961 (G-1).
- B-52 Deed, City of Weymouth, Massachusetts, 24 October 1966, for Great Esker Park (QD Buffer Area) (G-2).
- B-53 List of Present Day owners from CON/HTRW report for Project Number D01MA002202 (G-3).
- B-54 Report of Excess Real Property, First Naval District, 6 January 1961, Buildings Dispositions (G-4).
- B-55 Notice of Acceptance of Bid, First Naval District, 31 August 1961. Concerns buildings demolition and disposition (G-5).
- B-56 Typical condemnation order or taking for the Hingham Naval Ammunition Magazine, 15 February 1909 (G-6).
- B-57 Typical conveyance by sale for land for the Hingham Naval Ammunition magazine, 18 July 1906 (G-7).
- B-58 Typical "takings" by condemnation during the World War II expansion of the Naval Ammunition Depot at Hingham (G-8).
- B-59 Inventory Project Report: Includes the Site Survey Summary Sheet for DERP-FUDS Site No. D01MA0022 (E-1).
- B-60 Project Summary Sheet for OEW Project No. D01MA002204 (E-2).
- B-61 Findings and Determination of Eligibility For Site No. D01MA0022 (E-4).
- B-62 Project Summary Sheet for CON/HTRW Project Number D01MA002201 (E-3).
- B-63 Project Summary Sheet for BD/DR Project Number D01MA002202 (E-5).
- B-64 Site research done by State Historic Preservation Office (E-6).
- B-65 Historical Study of Naval Ammunition Depot for DERP Project (E-8).
- B-66 Letter, Ecology and Environment Engineering, P.C., 3 April 1990, subject: Contract No. DACA87-89-D-0024, Delivery Order 1, Contamination Evaluation at the former Naval Ammunition Depot, Hingham, MA (E-7).

B-67 Pamphlet, Hingham, Hingham League of Women Voters, 1991.

B-68 1994 Hingham Rotary Telephone Directory.

B-69 Not All Is Changed - A Life history of Hingham, L.L. and  
F.R. Hart, Hingham Historical Commission, 1993.

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX C

GLOSSARY

## APPENDIX C

### GLOSSARY

|          |  |
|----------|--|
| AA       | Anti-Aircraft  |
| AAA      | Anti-Aircraft Artillery  |
| AFB      | Air Force Base   |
| BD/DR    | Building Demolition/Debris Removal                                   |
| BP       | Black Powder   |
| CERCLA   | Comprehensive Environmental Response, Compensation and Liability Act |
| CEHND    | Corps of Engineers, Huntsville Division                              |
| CENCD    | Corps of Engineers, North Central Division                           |
| CENCR    | Corps of Engineers, North Central Division, Rock Island District     |
| CENED    | Corps of Engineers, New England Division                             |
| CG       | Chlorine   |
| CN       | Chloracetopphenone   |
| COE      | Corps of Engineers   |
| CON/HTRW | Containerized Hazardous, Toxic and Radioactive Waste                 |
| DERA     | Defense Environmental Restoration Account                            |
| DERP     | Defense Environmental Restoration Program                            |
| DM       | Adamsite   |
| EMA      | Environmental Management Agency                                      |
| EOD      | Explosive Ordnance Disposal  |
| EODCT    | Explosive Ordnance Disposal Control Team                             |
| EODIR    | Explosive Ordnance Disposal Incident Report                          |
| FDE      | Findings and Determination of Eligibility                            |

FUDS Formerly Used Defense Sites  
H Mustard  
HC High Capacity  
HE High Explosive  
HTRW Hazardous, Toxic and Radiological Waste  
INPR Inventory Project Report  
IRP Installation Restoration Program  
MK Mark  
MOD Model  
OEW Ordnance Explosive Waste  
PAO Public Affairs Office, Officer  
PEP Pyrotechnics, Explosives and Propellants  
PN Project Number  
PS Chlorpicrin  
QASAS Quality Assurance Specialist (Ammunition Surveillance)  
SARA Superfund Amendments and Restoration Act  
USA U.S. Army  
USACE U.S. Army Corps of Engineers  
USADACS U.S. Army Defense Ammunition Center and School  
USAEDH U.S. Army Engineer Division, Huntsville  
USN U.S. Navy  
USATCES U.S. Army Technical Center for Explosives Safety  
UXO Unexploded Ordnance

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
for the former  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX D  
TEXTS AND MANUALS

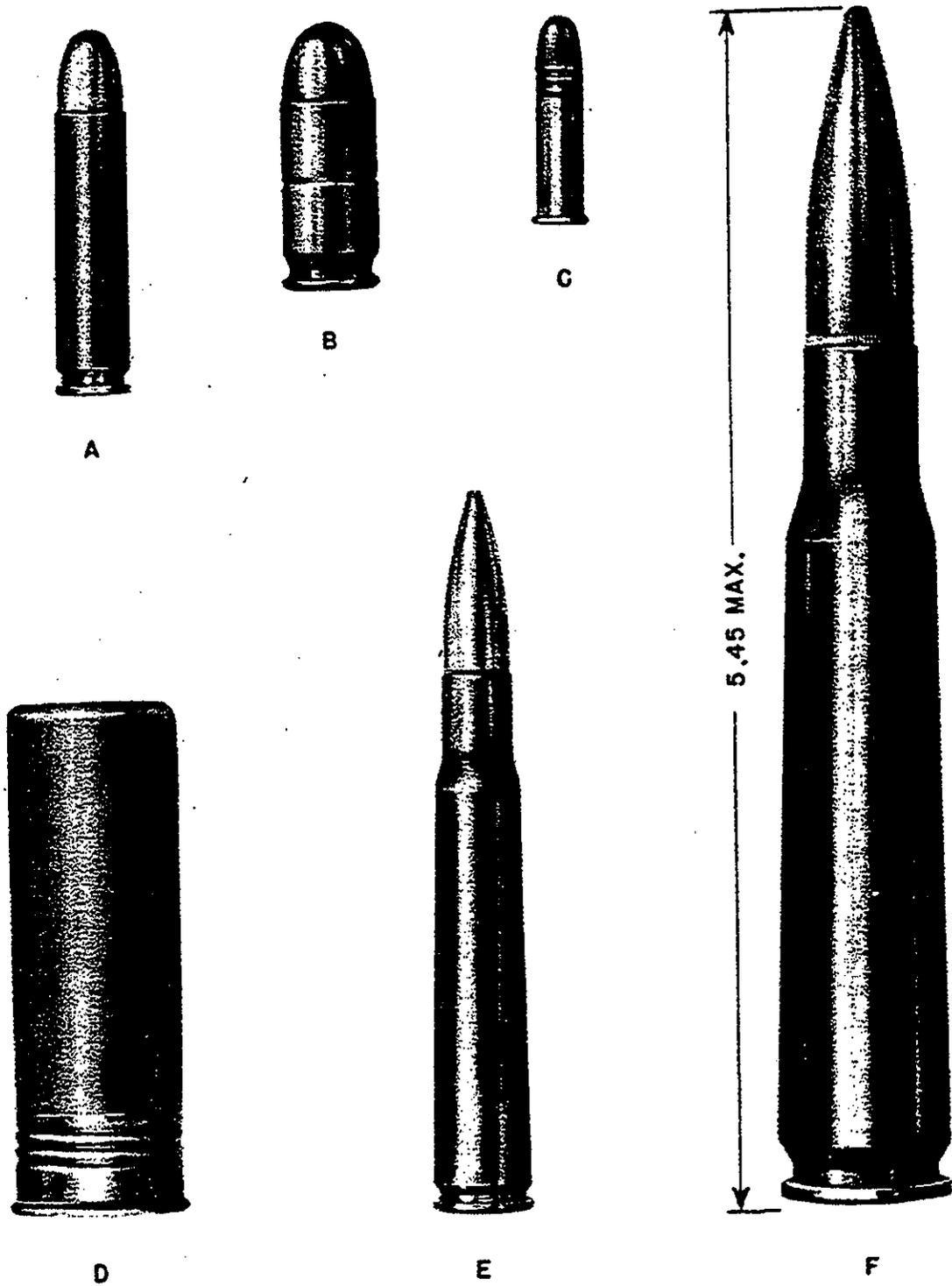
## APPENDIX D

### TEXTS AND MANUALS

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- D-1 Typical fleet Marine and ground forces ammunition.
- D-2 Typical Navy gun projectile ammunition.
- D-3 Typical Navy projectile fuzes and primers.
- D-4 Typical Navy mines and depth charges.
- D-5 Typical Terrier antiaircraft missile.

# AMMUNITION INSPECTION GUIDE

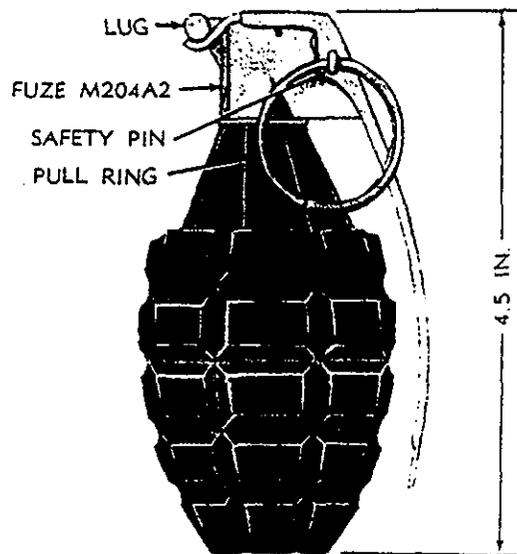
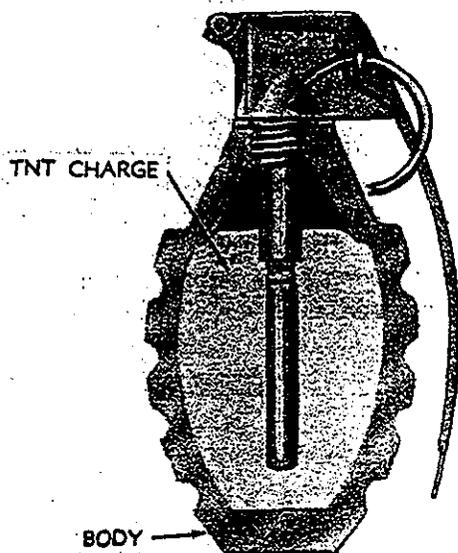


- A - CARTRIDGE, CARBINE, CAL..30, M1
- B - CARTRIDGE, BALL, CAL..45, M1911.
- C - CARTRIDGE, BALL, CAL..22, LONG RIFLE
- D - SHELL, SHOTGUN, 12-GAGE.
- E - CARTRIDGE, BALL, CAL..30, M2.
- F - CARTRIDGE, BALL, CAL..50, M2.

RA PD 4507

**Figure 68 — Types of Small-arms Ammunition**

GRENADE, HAND: FRAGMENTATION, MK2



AR 101014

Type Classification:

Obs. AMCTC 6558

Use:

The MK2 fragmentation hand grenade is used to supplement small arms fire against the enemy in close combat. The grenade produces casualties by high velocity projections of fragments.

Description:

The MK2 grenade is pineapple shaped with deep serrations of its body. These serrations delineate fragmentation of the body when the grenade explodes. No safety clip is authorized for use with this grenade.

The grenade body is of cast iron and contains a high-explosive filler.

Grenade fuzes M204A1 and M204A2 are pyrotechnic delay-detonating fuzes. They differ only in body construction. The body contains a primer and a pyrotechnic delay column. Assembled to the body are a striker, striker spring, safety lever, safety pin with pull ring, and a detonator assembly. The split end of the safety pin has an angular spread or diamond crimp.

Tabulated Data:

Grenade (with fuze):

|                    |   |
|--------------------|---|
| Model(s) -----     | MK2   |
| Body -----         | Cast iron   |
| Weight -----       | 21 oz   |
| Length (max) ----- | 4.5 in.   |
| Diameter -----     | 2.25 in.  |
| Color -----        | Olive drab, or olive drab w/yellow band around top of fuze well |

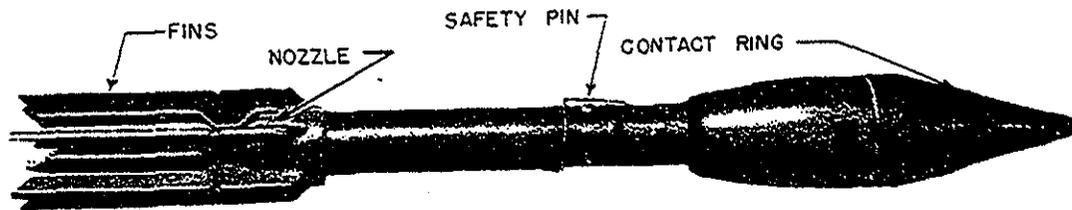
Explosive Filler:

|              |                          |
|--------------|--------------------------|
| Type -----   | TNT (flaked or granular) |
| Weight ----- | 2 oz                     |

Fuze:

|                           |  |
|---------------------------|--|
| Model(s) -----            | M204A1, M204A2                         |
| Type -----                | Pyro delay-detonating                  |
| Primer -----              | M42                                    |
| Detonator -----           | Lead azide, lead Styphnate, and RDX    |
| Delay time -----          | 4 - 5 sec                              |
| Weight -----              | 2.6 oz                                 |
| Length -----              | 4 in.                                  |
| Color, safety lever ----- | Olive drab w/black markings            |
| Packing -----             | Not issued separately                  |
| Safety device -----       | Pull ring and safety pin (Grenade MK2) |

## SMALL ARMS AND TRENCH WARFARE



RA PD 24025

**Figure 101 — ROCKET, AT, 2.36-inch, M6**

an open tube approximately 54 inches long and 2.365 inches internal diameter, equipped with hand grips, stock, firing mechanism, and sights. The firing mechanism is electrical in nature, the ignition of the rocket propelling charge being accomplished by the current from a 2 dry-cell battery in the stock. The launcher may be fired from the shoulder. There is no recoil, since propulsion of the rocket is by jet action of the propelling gases. The range of the rockets ranges from 200 to 300 yards as an optimum, although longer ranges can be obtained. The muzzle velocity is about 300 feet per second. Two types of rocket are provided; namely, high-explosive and practice.

**ROCKET, AT, 2.36-inch, M6** (fig. 101). This rocket is a high-explosive projectile for use against tanks. It is 21½ inches long and weighs 3½ pounds. The rocket consists of three principal parts: the high-explosive head, the stabilizer tube, and the fin assembly.

The head consists of metal parts which are similar in function to the parts of the AT grenade head. These parts are the ogive and the body. The bursting charge is similar, both in that it is a "hollow" or a "shaped charge," and also in its composition which is mainly 50/50 pentolite with a 10/90 pentolite booster surround. It is, however, a heavier charge, weighing approximately ½ pound.

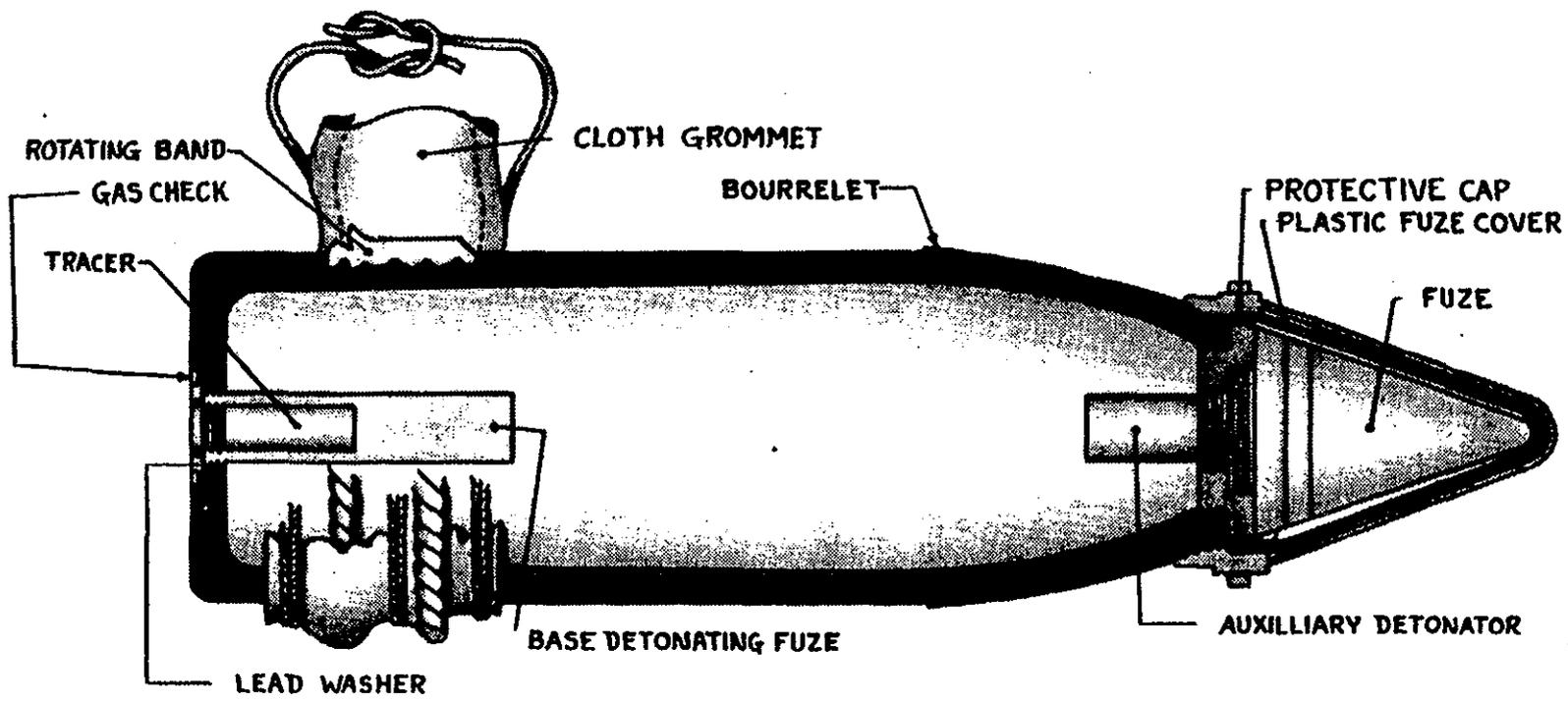
The stabilizer tube consists of two principal parts: the fuze body, which threads into the union and contains the fuze mechanism, and the powder tube to which the fuze body is permanently joined, and which contains the propellant charge.

The fuze is similar in all its components to that of the AT grenade. It is, however, of heavier construction, as is the entire rocket, and contains heavier booster and detonator charges. The parts of the fuze are a spring restrained striker; a detonator of priming mixture, lead azide, and tetryl; and a booster of tetryl. The striker is held in the unarmed position prior to loading into the launcher, by a safety pin which engages an annular groove in the striker as it passes through opposed holes in the fuze body. The safety pin clips to the stabilizer tube and must be removed prior to firing of the rocket.

The powder tube or remainder of the stabilizer tube in this case serves as a housing for the propellant powder and an electric safety match or squib. The propellant powder is a monopercorated ballistite type formed into rather long grains. The electric safety match with



|                                    |                                 |
|------------------------------------|---------------------------------|
| PROJECTILE DATA                    |                                 |
| NATIONALITY: U.S. NAVY             | INFORMATION DATE: April 1, 1945 |
| CLASSIFICATION: TYPICAL PROJECTILE |                                 |



TYPICAL PROJECTILE.

20

C-O-N-F-I-D-E-N-T-I-A-L

D-2

CARTRIDGE CASE DATA

|                        |                               |
|------------------------|-------------------------------|
| NATIONALITY: U.S. NAVY | INFORMATION DATE: April, 1943 |
| DESIGNATION: 5" Mk. V  | GUN: 5"/38 Mk. XII            |



Mk. V

C-O-N-F-I-D-E-N-T-I-A-L

CARTRIDGE CASE DATA

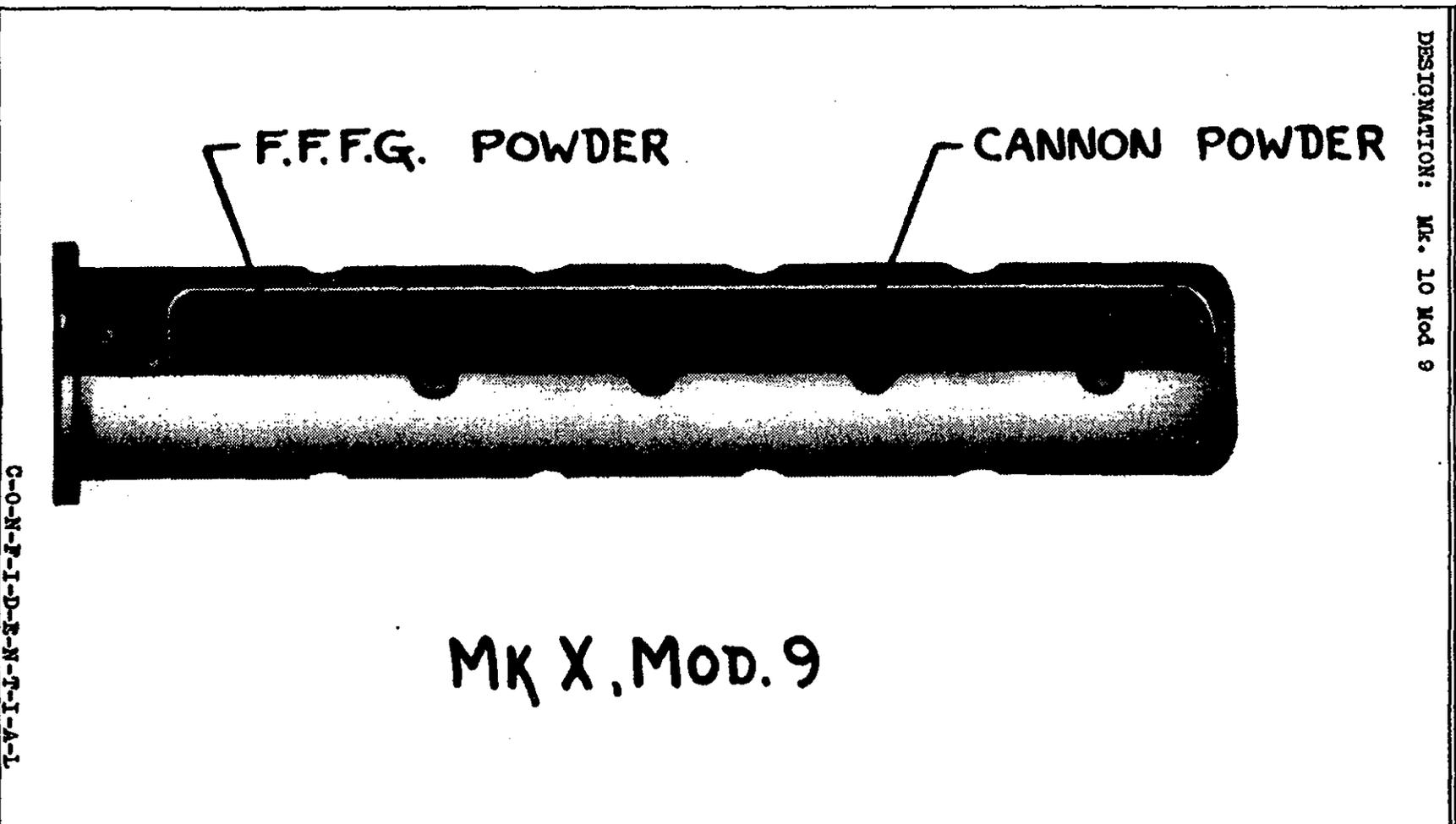
| NATIONALITY: U.S. NAVY       |   | INFORMATION DATE: April, 1943 |
|------------------------------|---|-------------------------------|
| DESIGNATION: 5" Mk. V        |   | GUN: 5"/38 Mk. XII            |
| 1. OVERALL LENGTH            | 26.75"  |                               |
| 2. MAXIMUM DIAMETER          | 5.69"   |                               |
| 3. INSIDE DIAMETER AT NECK   | 5.31"   |                               |
| 4. CASE THICKNESS AT NECK    | .045"   |                               |
| 5. DIAMETER OF CAP CONTAINER | .806"   |                               |
| 6. EXTRACTING LIP            | .145"   |                               |
| 7. MATERIAL                  | Brass   |                               |
| 8. VOLUME                    | 608.90 cu.in.   |                               |
| 9. MARKING                   | 5" Mk. V, an anchor, mfg's symbol and year of mfg.                        |                               |
| 10. WEIGHT EMPTY             | 12.31 lbs   |                               |
| 11. PROPELLANT               | Smokeless Powder  |                               |
| 12. PROPELLANT WEIGHT        | 15.00 lbs   |                               |
| 13. EXPLOSIVE IN CAP         | Mixture of Fulminate of Mercury, Potassium Chlorate and Antimony Sulfide. |                               |

C-O-N-F-I-D-E-N-T-I-A-L

PRIMERS

| INFORMATION            |                                      |
|------------------------|--------------------------------------|
| NATIONALITY: U.S. NAVY | DATE: April, 1945                    |
| TYPE: Percussion       | GUNS: 3"/23, 3"/50; 1, 3<br>& 6 Pdr. |

DESIGNATION: MK. 10 Mod 9



MK X, MOD. 9

F.F.F.G. POWDER

CANNON POWDER

# U.S. NAVY PROJECTILE FUSES

\* UNOFFICIAL

FILE NUMBER 04100.A

CONFIDENTIAL

| MARK | MODIFICATION          | WHERE LOCATED   | IGNITION OR DETONATING | ACTION TYPE   | EXPLOSIVE IN FUSE  |
|------|-----------------------|-----------------|------------------------|---|--|
| 2    | 2                     | BASE            | DETONATING             | SEMPLER PLUNGER - PROPELLED DETONATOR<br>MAJOR CALIBER<br>DELAY TRACER  | PRIMER - CAP COMPOSITION<br>MAGAZINE - FUZE POWDER<br>DETONATOR - MERCURY FULMINEATE<br>BOOSTER - TETRYL OR PICRIC   |
| 2    | 8<br>9                | BASE            | IGNITION               | GATE LOCKED - FIRING PIN<br>SEYBACK SHEAR LOCK FIRING PIN   | PRIMER - MERCURY FULMINEATE<br>MAGAZINE - BLACK POWDER   |
| 3    | 1<br>2                | BASE            | DETONATING             | SEMPLER PLUNGER<br>INSTANTANEOUS - TRACER<br>MAJOR CALIBER  | DETONATOR - MERCURY FULMINEATE<br>BOOSTER - TNT  |
| 7    | 1                     | NOSE            | DETONATING             | MEDIUM CALIBER<br>SLIDING DETONATOR CARRIER   | DETONATOR - MERCURY FULMINEATE<br>BOOSTER - TETRYL   |
| 8    | 4<br>5<br>6           | BASE            | IGNITION               | SEMPLER WINGED STRIKER<br>MINOR CALIBER   | CAP - MERCURY FULMINEATE<br>MAGAZINE - BLACK POWDER  |
| 9    | 1<br>2<br>3           | NOSE            | IGNITION               | 21 SECOND COMBINATION FRANKFORT ARSENAL<br>POWDER TRAIN WITH SEMPLER PLUNGER  | CONCUSSION PRIMER - FULMINEATE COMPOSITION<br>TRAINS AND MAGAZINE - BLACK POWDER   |
| 9    | —                     | BASE            | DETONATING             | SEMPLER PLUNGER<br>DELAY ACTION   | DELAY - BLACK POWDER<br>DETONATOR - MERCURY FULMINEATE<br>BOOSTER - TNT  |
| 10   | 3<br>4<br>9           | BASE            | IGNITION               | SEMPLER<br>SEMPLER<br>GRAY & DAVIS } SEMPLER PLUNGER<br>MEDIUM CALIBER  | CAP - MERCURY FULMINEATE<br>MAGAZINE - BLACK POWDER  |
| 11   | 1<br>2<br>3<br>4<br>5 | NOSE            | IGNITION               | COMBINATION<br>COMBINATION<br>TIME<br>COMBINATION<br>COMBINATION } SCOVILL<br>21 SECOND FUZE<br>POWDER TRAIN AND SEMPLER PLUNGER  | CONCUSSION PRIMER - FULMINEATE COMPOSITION<br>TRAINS AND MAGAZINE - BLACK POWDER   |
| 11   | 8                     | BASE            | DETONATING             | BALL LOCK FIRING PIN<br>SPRING ACTUATED PLUNGER<br>MAJOR CALIBER - REPLACED BY MK 25<br>* VARIABLE DELAY ELEMENT  | PRIMER - UMC PRIMER COMPOSITION<br>DELAY PELLET - BLACK POWDER<br>LEAD CHANNEL - LOOSE BLACK POWDER<br>BOOSTER - (LEAD IN AND LEAD OUT) TETRYL<br>DETONATOR - MERCURY FULMINEATE   |
| 12   | 1<br>2<br>3           | NOSE            | DETONATING             | EXTERNAL STRIKER HEAD<br>ROTOR INTERRUPTER -<br>VERY SENSITIVE 1" GUY   | DETONATOR - MERCURY FULMINEATE<br>BOOSTER - TETRYL AND NO. 74 POW POW MIX  |
| 13   | ALL MODIFICATIONS     | BASE            | DETONATING             | REPLACED BY MK 28<br>BALL LOCK FIRING PIN<br>ROTOR - DETONATOR UNIT   | DETONATOR - MERCURY FULMINEATE AND<br>NO. 74 POW POW MIX<br>LEAD IN AND BOOSTER - TETRYL   |
| 15   | —                     | NOSE            | IGNITION               | 45 SECOND COMBINATION<br>POWDER TRAIN WITH SEMPLER PLUNGER  | CONCUSSION PRIMER - FULMINEATE COMPOSITION<br>TRAINS AND MAGAZINE - BLACK POWDER   |
| 16   | 2<br>3<br>5           | NOSE            | IGNITION               | COMBINATION<br>TIME<br>TIME<br>TIME } 45 SECOND POWDER TRAIN AND SEMPLER PLUNGER  | CONCUSSION PRIMER - MERCURY FULMINEATE<br>MAGAZINE AND TRAIN - BLACK POWDER  |
| 17   | 1-6<br>8              | UNDER NOSE FUZE | DETONATING             | AUXILIARY DETONATING FUZE GAS FIRED BY NOSE FUZE ACTION<br>ROTOR ARMING (MOD. B) ROTOR FITTED WITH PIN STOPS  | DETONATOR - MERCURY FULMINEATE AND TETRYL<br>LEAD IN AND BOOSTER - TETRYL  |
| 18   | 1<br>2<br>3<br>4      | NOSE            | IGNITION               | 45 SECOND CLOCK<br>MECHANICAL TIME FUZE   | PRIMER - NON FULMINEATE MIX<br>MAGAZINE - BLACK POWDER IN MOISTURE PROOF<br>PLASTIC DONUT MAGAZINE   |
| 19   | —                     | BASE            | DETONATING             | DELAY ACTION - FIXED STRIKER<br>GAS LOCKING - IMPACT PLUNGER  | DELAY PELLET - BLACK POWDER<br>PRIMER - UMC NO. 7 (DELAY ELEMENT)  |
| 20   | —                     | BASE            | DETONATING             | DELAY ACTION - FIXED STRIKER<br>GAS LOCKING - IMPACT PLUNGER  | SENSITIVE PRIMER - POW POW MIX NO. 74<br>DETONATOR - AZIDE<br>LEAD IN AND OUT - TETRYL<br>BOOSTER - TETRYL   |
| 21   | —                     | BASE            | DETONATING             | DELAY ACTION - FIXED STRIKER<br>BALL AND GAS LOCKING - IMPACT PLUNGER   | DELAY ELEMENT - BLACK POWDER<br>PRIMER - UMC NO. 7<br>SENSITIVE PRIMER - POW POW MIX NO. 74<br>DETONATOR - MERCURY FULMINEATE AND TETRYL<br>LEAD IN AND OUT; BOOSTER - TETRYL      |
| 22   | —                     | NOSE            | IGNITION               | 30 SECOND CLOCK MECHANICAL TIME FUZE  | PRIMER - NON FULMINEATE MIX<br>MAGAZINE - BLACK POWDER IN MOISTURE PROOF<br>PLASTIC DONUT MAGAZINE   |
| 23   | —                     | BASE            | DETONATING             | MAJOR CALIBER FUZE - DELAY (FIXED) ACTION -<br>BALL LOCKED STRIKER - SPRING ACTUATED PLUNGER<br>- HEAVY IMPACT FUZE   | SENSITIVE PRIMER - POW POW MIX NO. 74<br>DELAY ELEMENT - BLACK FUZE POWDER<br>DETONATOR - LEAD AZIDE<br>LEAD OUT AND IN; BOOSTER - TETRYL  |
| 25   | —                     | NOSE            | IGNITION               | 45 SECOND MECHANICAL TIME (SAME CLOCK AS IN MK 18, -<br>BUT IN MK 22 SHAPED BODY)   | PRIMER - NON FULMINEATE MIX<br>MAGAZINE - BLACK POWDER IN MOISTURE PROOF<br>PLASTIC DONUT MAGAZINE   |
| 26   | 1<br>2<br>3           | NOSE            | DETONATING             | SHOCK ACTION ON DETONATOR, USE 20 MM PROJECTILE ONLY<br>MOOS. 1 AND 2 HAVE EXTRA BOOSTER MAGAZINE   | DETONATOR - TETRYL AND LEAD AZIDE<br>EXTRA BOOSTER - LEAD AZIDE  |
| 27   | —                     | NOSE            | DETONATING             | ROTOR ARMED - IMPACT STRIKER USED IN 40 MM PROJECTILE   | DETONATOR - LEAD AZIDE AND PRIMER MIX<br>LEAD IN AND BOOSTER - TETRYL  |
| 28   | 1-12<br>SPECIAL       | BASE            | DETONATING             | INSTANTANEOUS ACTION - FIXED STRIKER - GAS LOCKING - IMPACT PLUNGER<br>MK SERIES - 10, 20, 21, 28, AND 31 ALL BASICALLY ALIKE<br>WEAK DETENT SPRINGS FROM MK 21 ADAPT THE MK 28 FOR MAJOR CALIBER USE | SENSITIVE PRIMER - POW POW MIX NO. 74<br>SECONDARY PRIMER - UMC NO. 7<br>DETONATOR - LEAD AZIDE<br>LEAD OUT AND IN; BOOSTER - TETRYL   |
| 29   | 1                     | NOSE            | DETONATING             | IMPACT STRIKER - INTERRUPTED TRAIN FUZE<br>IT IS U.S. ARMY MAKE ADAPTED FOR USN USE, PLASTIC OGVIE - TAPED  | RELAY DETONATOR - LEAD AZIDE   |
| 30   | 1                     | NOSE            | DETONATING             | SAME AS MK 29 - OGVIE TAPED TO PREVENT CRACKING, UNTIL REPLACED   | INITIAL DETONATOR - LEAD AZIDE AND PRIMER MIX  |
| 31   | EXPERIMENTAL          | BASE            | DETONATING             | DELAY ACTION - SAME FUZE AS MK 28 SERIES, -<br>BUT WITH EXTERNAL TRACER UNIT WHICH IS THREADED INTO HEAD  | DELAY PRIMER - UMC NO. 7<br>DELAY PELLET - BLACK POWDER<br>SENSITIVE PRIMER - POW POW MIX NO. 74<br>DETONATOR - TETRYL AND MERCURY FULMINEATE<br>LEAD IN AND OUT; BOOSTER - TETRYL |
| 34   | —                     | NOSE            | DETONATING             | IMPACT ACTION - FIRING PIN - SHEAR BLOCK - ROTOR ARMING UNIT<br>NEW 1.1" FUZE   | DETONATOR - LEAD AZIDE, TETRYL AND PRIMER MIX<br>LEAD IN AND BOOSTER - TETRYL  |
| 35   | —                     | UNDER NOSE FUZE | DETONATING             | AUXILIARY DETONATING FUZE SAME AS MK 17 (MOD. B) -<br>PINNED ROTOR BUT WITH WEAKER DETENT SPRINGS FOR USE IN 12, 14, AND 16,<br>INCH HIGH CALIBER PROJECTILES   | DETONATOR - MERCURY FULMINEATE<br>LEAD IN AND BOOSTER - TETRYL   |

52859 O - 43 (Face p. 174)

POW POW MIX NO. 74 is composed of MERCURY FULMINEATE, ANTIKNOCK SOLPHIDE, and POTASSIUM CHLORATE  
Blank space in the column "MODIFICATION" indicates UNMODIFIED FUZE.

| <u>DESIGNATION</u>                  | <u>TYPE</u>          | <u>PAGE<br/>NO.</u> |
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| Mk. 2 Mod 8                         | Base Ignition        | 182                 |
| Mk. 2 Mod 9                         | Base Ignition        | 184                 |
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| Mk. 3 Mod 2                         | Base Detonating      | 190                 |
| Mk. 7 Mod 1                         | Nose Detonating      | 194                 |
| Mk. 8 Mod 4                         | Base Ignition        | 196                 |
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| Mk. 17 Mods 1-6 )<br>Mk. 17 Mod 8 ) | Auxiliary Detonating | 229                 |
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| Mk. 23                              | Base Detonating      | 244                 |
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| Mk. 27                              | Point Detonating     | 252                 |
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| Mk. 29                              | Point Detonating     | 260                 |
| Mk. 30                              | Point Detonating     | 264                 |
| Mk. 34                              | Point Detonating     | 266                 |

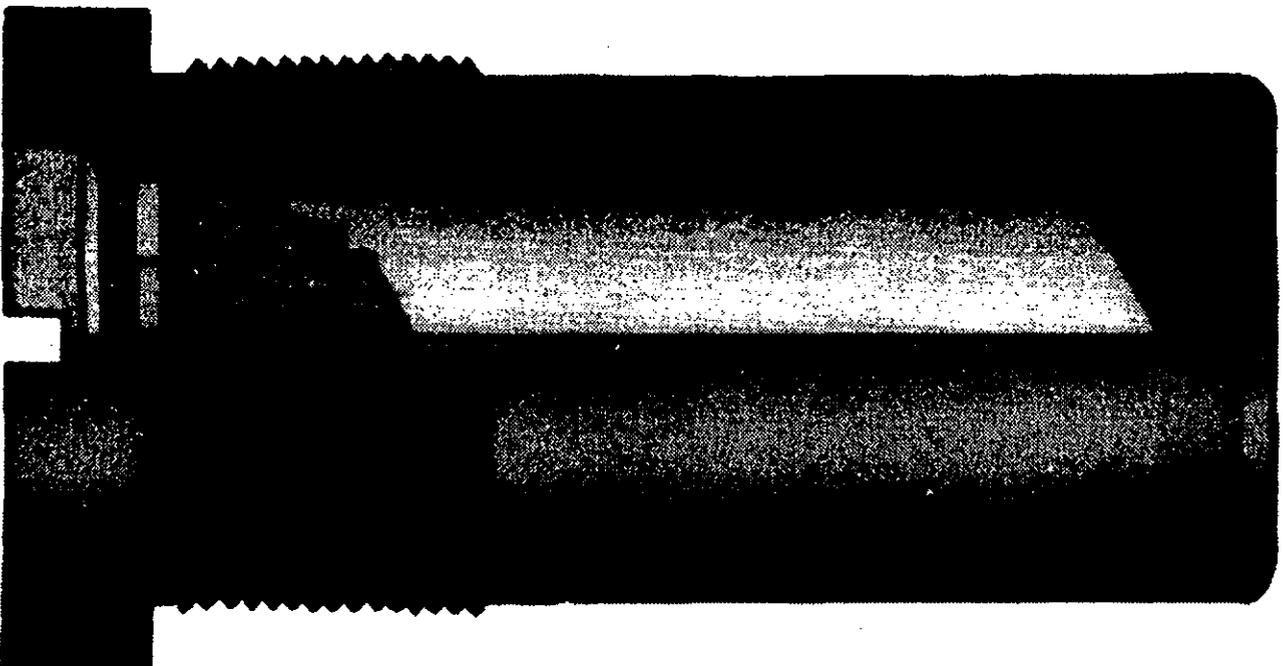
C-O-N-F-I-D-E-N-T-I-A-L

TRACER DATA

|                                 |                                |
|---------------------------------|--------------------------------|
| NATIONALITY: U.S. NAVY          | INFORMATION DATE: APR 11, 1943 |
| DESIGNATION: Mk. 5; Mk. 5 Mod 1 | TYPE: Igniting                 |
| PROJECTILES USED IN:            |                                |

Mk. 5 -  
 5" / 38 Common  
 6" / 47 Spec. Com., A.P., H.C.  
 8" / 55 A.P., Common  
 14" / 45 & 50 A.P.  
 16" / 45 A.P.

Mk. 5 Mod 1 -  
 5" / 51 H.C.  
 6" / 47 H.C.  
 8" / 55 H.C.  
 12" / 50 H.C.  
 14" / 45 & 50 H.C.  
 16" / 45 H.C.



Mk. 5 AND Mk. 5, MOD. 1

C-O-N-P-I-D-E-N-T-I-A-L

PROJECTILE FUZE DATA

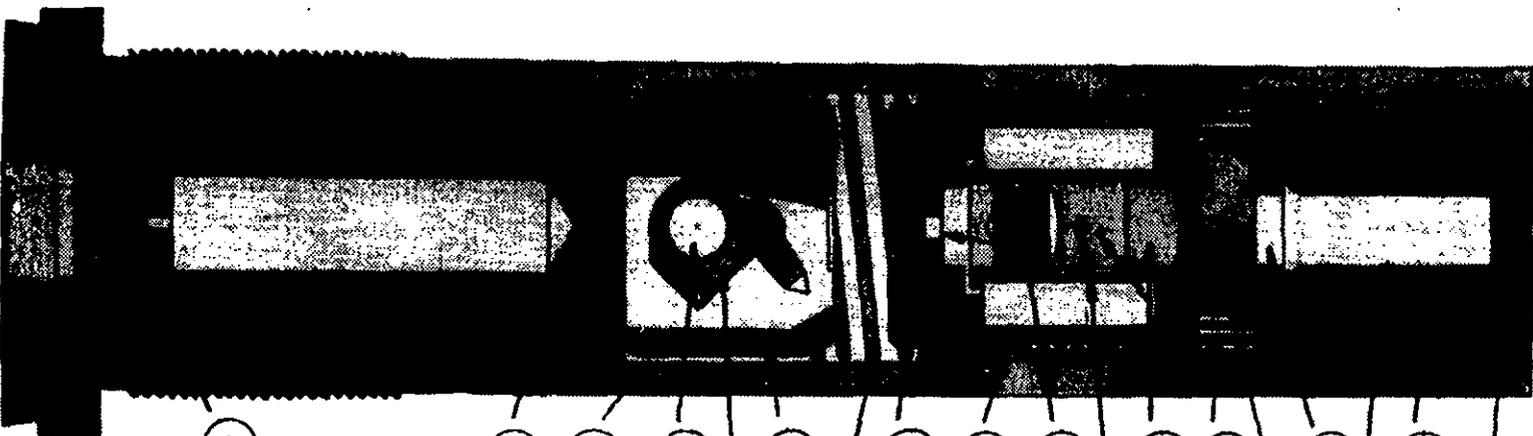
NATIONALITY: U.S. NAVY

INFORMATION

DATE: April, 1943

DESIGNATION: Mk. 2 - Mod 2

CLASSIFICATION: Base Detonating Fuze



- 1
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- 17

Mk. 2-Mod. 2



C-O-N-F-I-D-E-N-T-I-A-L

PROJECTILE FUZE DATA

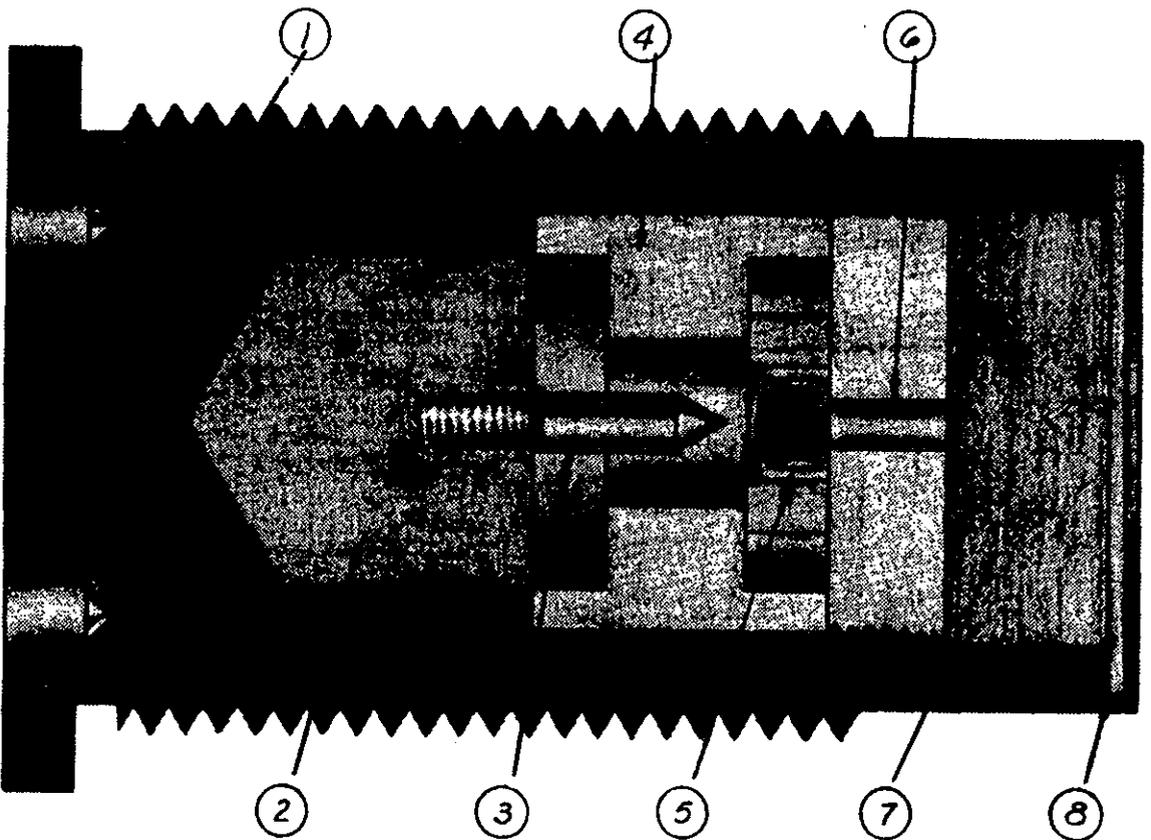
NATIONALITY: U.S. NAVY

INFORMATION  
DATE:

April, 1943

DESIGNATION: Mk. 2 - Mod 8

CLASSIFICATION: Minor Caliber - Base Ignition Fuze



Mk. 2 - Mod. 8

C-0-N-P-I-D-E-N-T-I-A-L

PROJECTILE FUZE DATA

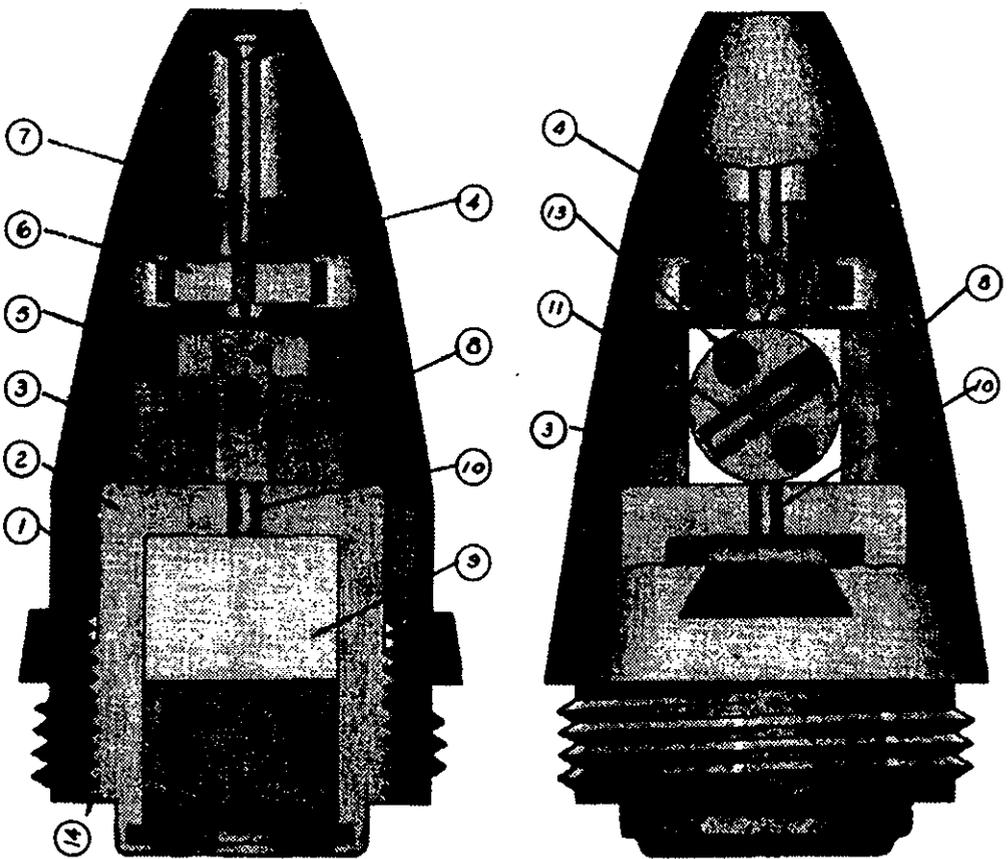
NATIONALITY: U.S. NAVY

INFORMATION  
DATE:

APRIL, 1943

DESIGNATION: Mk. 27

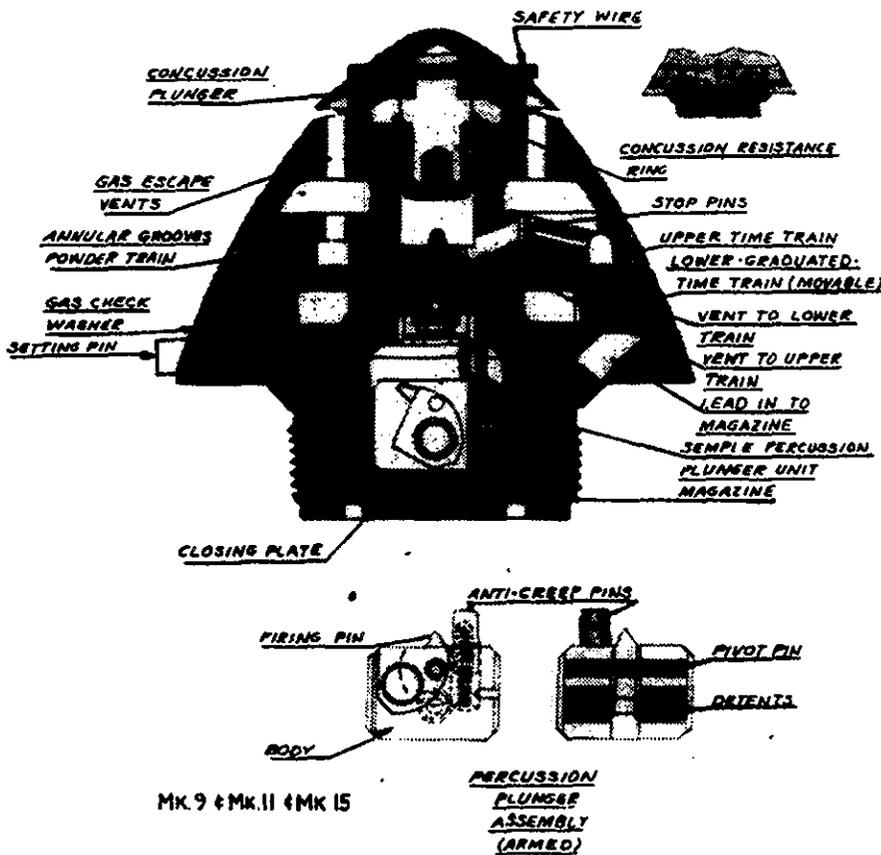
CLASSIFICATION: Point Detonating Fuze



Mk. 27

**PROJECTILE FUZE DATA**

|  |                          |
|--|--------------------------|
| <b>NATIONALITY:</b> U.S. NAVY                            | <b>INFORMATION</b>       |
|  | <b>DATE:</b> April, 1943 |
| <b>DESIGNATION:</b> Mk. 9, Mk. 11, Mk. 15                |                          |
| <b>CLASSIFICATION:</b> Nose Ignition Fuze - Powder Train |                          |



C-O-N-F-I-D-E-N-T-I-A-L

PROJECTILE FUZE DATA

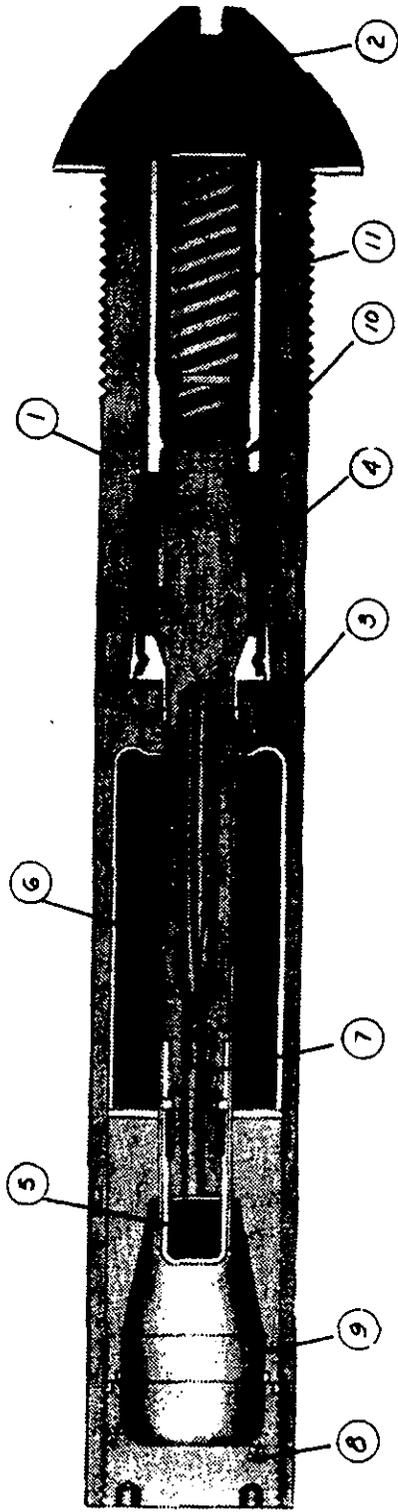
NATIONALITY: U.S. NAVY

INFORMATION

DATE: April, 1943

DESIGNATION: Mk. 7 Mod 1

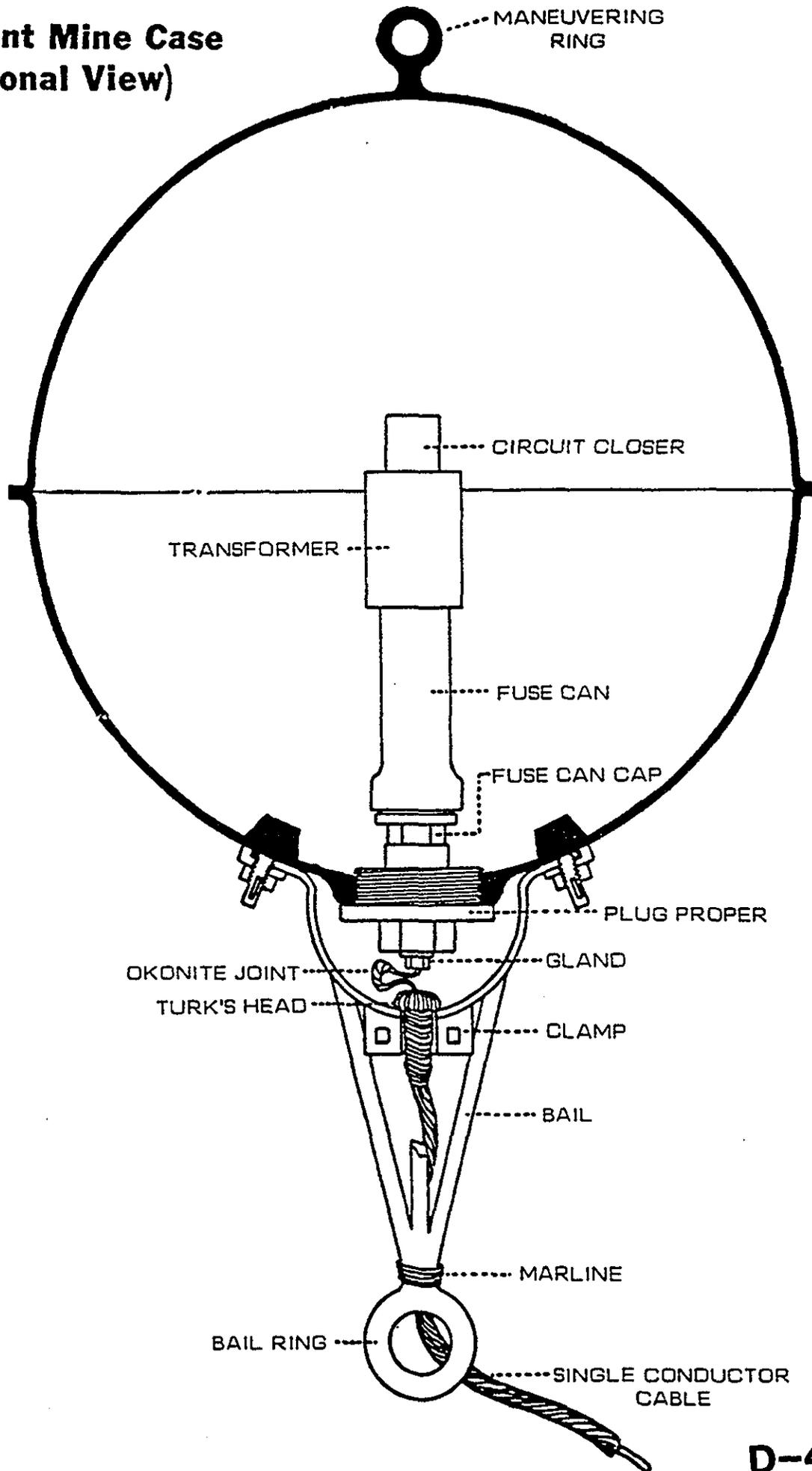
CLASSIFICATION: Nose Detonating Fuze



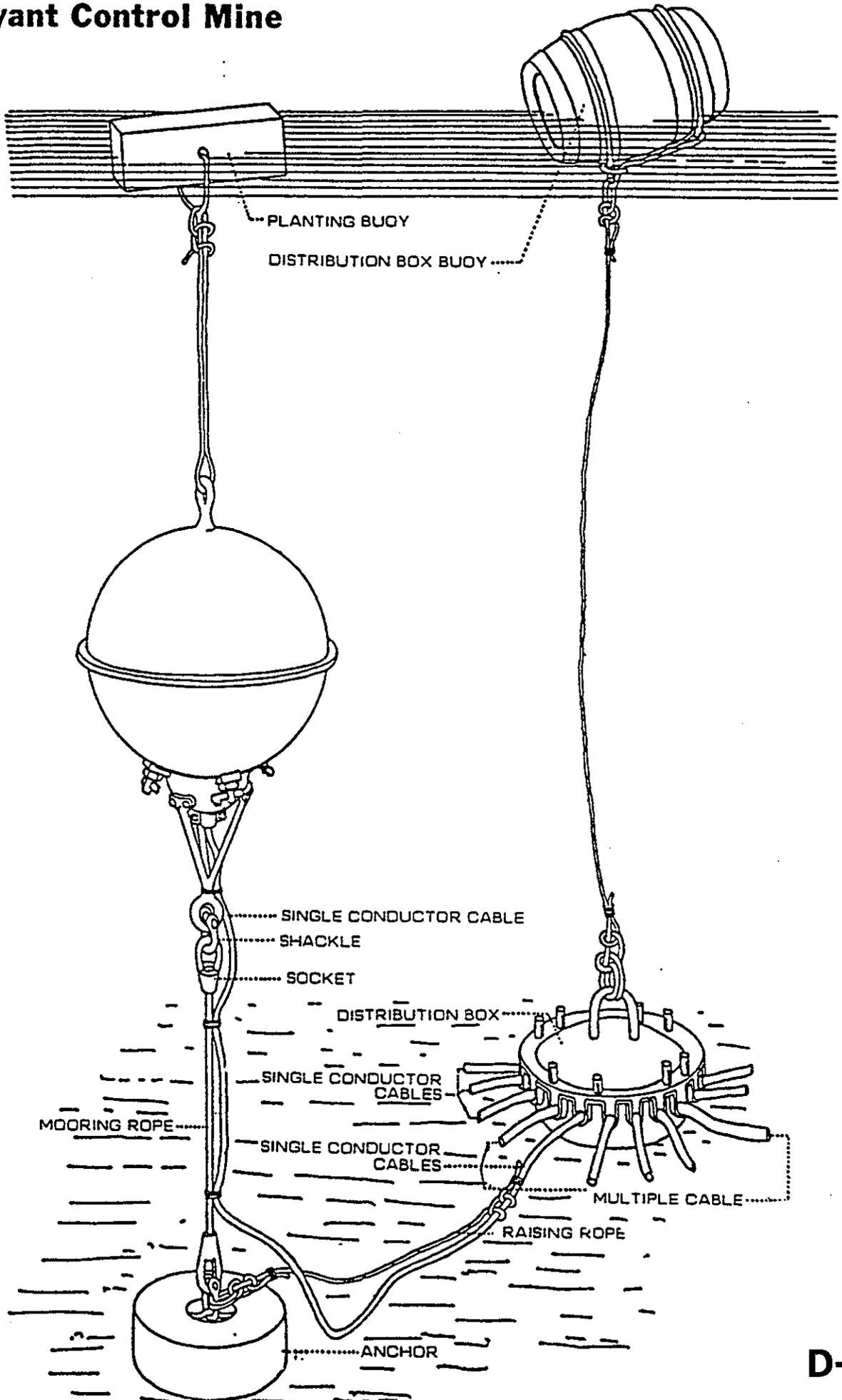
Mk. 7

C-O-N-F-I-D-E-N-T-I-A-L

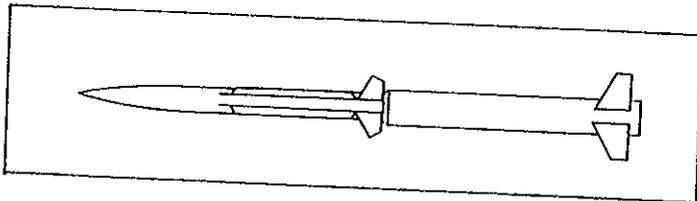
# Buoyant Mine Case (Sectional View)



# Buoyant Control Mine



(USA)



The Terrier series of anti-aircraft missiles has been in operational service since 1956. It has also been the subject of sustained development and improvement but it is now progressively giving way to the Standard missile in US Navy service. Most versions of Terrier are armed with a conventional HE warhead, but one model, the RIM-2D, was produced with a nuclear payload. Development was started in 1951 and entry into operational service followed about five years later. The Advanced Terrier (RIM-2F) became operational in 1963. In addition to the USN the Italian and Netherlands Navies also are equipped to operate Terrier.

### TERRIER (RIM-2)

**Type:** Surface-to-air. Shipborne. Surface-to-surface capability

**Configuration:** Cylindrical body with pointed nose and long-chord, narrow-span cruciform wings. Cruciform tail surfaces. Booster of larger diameter has its own cruciform tail surfaces

**Length:** 13 ft (3.96 m) 27 ft (8.23 m) with booster

**Diameter:** 1 ft 1½ in (34 cm). Booster: 1 ft 6 in (46 cm)

**Weight:** 3000 lb (1360 kg)

**Propulsion:** Two-stage solid

**Range:** 22 miles (35 km). Estimated

**Guidance:** Beam-rider plus semi-active radar homing

**Warhead:** High-explosive. Proximity fuse

**Main Contractor(s):** General Dynamics Corporation

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX E  
REPORTS/STUDIES

## APPENDIX E

### REPORTS/STUDIES

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- E-1 Inventory Project Report: Includes the Site Survey Summary Sheet for DERP-FUDS Site No. D01MA0022 (reference B-61).
- E-2 Project Summary Sheet for OEW Project No. D01MA002204 (reference B-60).
- E-3 Project Summary Sheet for CON/HTRW Project Number D01MA002201 (B-62).
- E-4 Findings and Determination of Eligibility For Site No. D01MA0022 (B-61).
- E-5 Project Summary Sheet for BD/DR Project Number D01MA002202 (B-63).
- E-6 Site research done by State Historic Preservation Office (B-64).
- E-7 Letter, Ecology and Environment Engineering, P.C., 3 April 1990, Subject: Contract No. DACA87-89-D-0024, Delivery Order 1, Contamination Evaluation at the Former Naval Ammunition Depot, Hingham, MA (B-66).
- E-8 Historical Study of Naval Ammunition Depot for DERP Project (B-65).

NOVEMBER 10, 1993

CENED-RE-AM (200-1a)

MEMORANDUM FOR

HQ, USACE, ATTN: CEMP-RF  
COMMANDER, MRD-ED-HT  
COMMANDER, HND-PM-EP

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Site No. D01MA0022, Property of Town of Hingham and Others (Former Hingham Naval Ammunition Depot), Hingham, Massachusetts

1. Forwarded is the INPR for the former Hingham Naval Ammunition Depot, Hingham, Massachusetts. The site is eligible for DERP-FUDS. The proposed CON/HTRW, BD/DR, and OEW projects are eligible for DERP-FUDS.

2. The Findings of Fact and Determination of Eligibility (FDE) for a portion of this site was originally approved on 13 February 1985. The FDE included in this INPR has been written to include all of the land at the site.

3. This INPR has been reviewed by Counsel for legal sufficiency.

4. Recommend that CEMP-R approve the proposed CON/HTRW and BD/DR projects and assign them to this headquarters (CENED-PD-L) for RD/RA. Due to the potential for OEW at the site, CEHND clearance will be obtained prior to any RA work being initiated.

5. CENED will forward the proposed OEW project to CEHND-PM-OT for further action.

Encl

BRINK P. MILLER  
COL, EN  
Commanding

CF:  
Eng Dir  
Proj Mgt  
RE File  
Mr. Batt  
Ms. Laster

*[Signature]*  
DE  
*[Signature]*  
DDE-PM

*[Signature]*  
DDE

*[Signature]*  
CH-PD-L

*[Signature]*  
CH, HTW-PB

*[Signature]*  
COUNSEL

*[Signature]*  
DIR-RE

*[Signature]*  
CH-RE-AM

*[Signature]*  
BATT  
*[Signature]*



DEPARTMENT OF THE ARMY  
NEW ENGLAND DIVISION, CORPS OF ENGINEERS  
424 TRAPELO ROAD  
WALTHAM, MASSACHUSETTS 02254-9149

REPLY TO  
ATTENTION OF

November 10, 1993

CENED-RE-AM (200-1a)

MEMORANDUM FOR

HQ, USACE, ATTN: CEMP-RF  
COMMANDER, MRD-ED-HT  
COMMANDER, HND-PM-EP

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Site No. D01MA0022, Property of Town of Hingham and Others (Former Hingham Naval Ammunition Depot), Hingham, Massachusetts

1. Forwarded is the INPR for the former Hingham Naval Ammunition Depot, Hingham, Massachusetts. The site is eligible for DERP-FUDS. The proposed CON/HTRW, BD/DR, and OEW projects are eligible for DERP-FUDS.
2. The Findings of Fact and Determination of Eligibility (FDE) for a portion of this site was originally approved on 13 February 1985. The FDE included in this INPR has been written to include all of the land at the site.
3. This INPR has been reviewed by Counsel for legal sufficiency.
4. Recommend that CEMP-R approve the proposed CON/HTRW and BD/DR projects and assign them to this headquarters (CENED-PD-L) for RD/RA. Due to the potential for OEW at the site, CEHND clearance will be obtained prior to any RA work being initiated.
5. CENED will forward the proposed OEW project to CEHND-PM-OT for further action.

Encl

  
BRINK P. MILLER  
COL, EN  
Commanding

SITE SURVEY SUMMARY SHEET  
FOR  
DERP-FUDS SITE NO. D01MA0022  
PROPERTY OF TOWN OF HINGHAM AND OTHERS  
(HINGHAM NAVAL AMMUNITION DEPOT)  
HINGHAM, MASSACHUSETTS  
15 October 1993

**SITE NAME:** Property of Town of Hingham and Others (Former Hingham Naval Ammunition Depot)

**LOCATION:** Hingham, Massachusetts; site maps attached.

**SITE HISTORY:** The site, consisting of approximately 990.262 acres fee, was acquired between 1888 and 1913, excepting an approximately 44 acre fee parcel acquired in 1942, by purchase and condemnation. The Navy used the Hingham Naval Ammunition Depot as a munitions manufacturing and testing plant to supply munitions to ships and aircraft primarily during the preparation and engagement of World Wars I and II. The Navy's construction of the buildings and other improvements began in 1909. By 1958 the depot contained 187 buildings; including warehouses, personnel housing, and munitions production facilities. The 990.262-acre site was closed in 1960 and reported to General Services Administration (GSA) for disposal in 1962. Approximately 753.262 acres fee were later withdrawn from excess by the Navy until they were again reported to GSA for excess in 1970 and 1971. Most of the structures placed on the site by the Navy were abandoned and disposed of with the land.

In October 1966, GSA conveyed approximately 237 acres fee to the Town of Weymouth for public park and recreation purposes. In May 1972, GSA assigned approximately 7.267 acres fee and the structures thereon to the Department of Health, Education, and Welfare (HEW) which in turn conveyed it to Project Turnabout, Inc. for educational purposes. Also in May 1972, GSA assigned approximately 460.7 acres fee to the Department of Interior which in turn conveyed it, through its Bureau of Outdoor Recreation, to the Town of Hingham for public park or public recreation purposes in perpetuity. A corrective deed, under the same terms and conditions, was issued to correct the legal description and show the area conveyed to be approximately 460.3 acres fee.

In December 1973, GSA conveyed approximately 43.861 acres fee to James Salah. Also in December 1973, GSA assigned the following described property to HEW which in turn conveyed it to the Town of Hingham for educational purposes: School Tract No. I - 6.365 acres fee, School Tract No. II - 18.1 acres fee, and School Tract No. IV - 39.691

**SITE NO. D01MA0022**

acres fee. Also in December 1973, GSA conveyed approximately 85.6 acres fee to the Trustees of the Hingham Property Trust.

GSA assigned approximately 3.845 acres fee to HEW which in February 1974 conveyed it to the South Shore Conservatory of Music, Inc. for educational purposes. In August 1976, GSA conveyed approximately 86.014 acres fee to Joseph A. Saponaro. In September 1984, GSA assigned approximately 2.219 acres fee to the Department of Education (DoE) which in turn conveyed it to South Shore Day Care Services, Inc. for educational purposes.

The current owners of the site are the same as at the time of conveyance out of the Government excepting that the James Salah property is now owned by the Massachusetts Division of Fisheries and Wildlife, the Massachusetts Department of Public Works, and the Hingham Mutual Life Insurance Co. The Hingham Property Trust property has been developed into two private residential condominium complexes and the Joseph A. Saponaro property is being prepared for private development. The Town of Weymouth property continues to be used for public park and recreation purposes. Project Turnabout, Inc. continues to use its property for drug rehabilitation and education. The Town of Hingham continues to use its recreation area as Bare Cove Park. The Town of Hingham school tracts continue to be used for educational purposes. The South Shore Conservancy of Music, Inc. property continues to be used for educational purposes. The South Shore Day Care Services, Inc. property continues to be used for educational purposes.

**SITE VISIT:** A site visit was conducted on 22 May 1991 by Bob Martin and Dave Larsen of CENED-ED. They were accompanied by George Dolin (617-749-1683), a representative for the Town of Hingham.

**CATEGORY OF HAZARDS:** CON/HTRW, BD/DR, OEW

**DESCRIPTION OF HAZARDS:**

a. **CON/HTRW.** There is one abandoned 55-gallon drum, sealed and about 1/4 full, in Storehouse No. 99 on School Tract No. II. There is one broken-open abandoned transformer located in a pile of debris at the western end of the foundation for former Building No. 165 located in Bare Cove Park. Both areas are owned by the Town of Hingham. The drum and transformer may contain environmental contaminants.

b. **BD/DR.** The Massachusetts Department of Public Works (DPW) property contains three abandoned former DOD buildings which the DPW are requesting be removed. Two of the buildings are structurally sound and do not qualify for removal. The third building, No. 156, is a dilapidated steel structure with the sides falling off and a portion of its steel support system missing; it is a structural hazard. The Massachusetts Division of Fisheries and Wildlife (DFW) property contains five subsurface powder magazines each of which has a seven foot vertical drop when approached from the slope side. Each of the magazines constitutes a falling hazard. The Town of Hingham School Tract No. II contains a former DOD administration building (2 story) with numerous openings on the second floor more than six feet above the next lower level. The openings constitute a falling hazard. The administration building also contains asbestos. There is a concrete block storehouse (200' x 40') with a roof and walls which could cave in; this building constitutes a structural hazard. There is an 18 inch wide manhole located to the east of the former communications building. The manhole is filled with water to within four feet of the top. The manhole constitutes a falling and drowning hazard. The Town of Hingham School Tract No. IV contains an abandoned former DOD pumphouse (Building No. 161), which has a dilapidated platform and stairway inside which could collapse causing serious injury. The pumphouse building constitutes a falling hazard; also, asbestos is suspected to be present in the building structure and on the surrounding ground. The Town of Hingham Bare Cove Park recreation area contains the following abandoned former DOD structures: a coal fired boiler house with a sagging roof with two holes in it--the building constitutes a structural hazard because of the roof (also, the building contains two furnaces and two water tanks all four of which are encased in asbestos insulation); a dilapidated wooden gatehouse on Fort Street which is in a severe state of disrepair and which constitutes a structural hazard; Storehouses Nos. 18 and 29 (located next to each other) which are in a state of extreme disrepair--the rotting roofs and deteriorating walls constitute a structural hazard; eight subsurface concrete bunkers which have falls of over seven feet--each of these bunkers constitute a falling hazard; eight holes approximately six foot in depth (five are manholes and three are of unknown origin), two of the holes with covers which are easily removed and the other six are open--each of these holes constitute a falling hazard; and a deteriorated dock (No. 2) with a concrete deck and concrete pilings which are deteriorated to the point that only the reinforcing rods remain--the dock constitutes a falling, drowning, and structural hazard.

SITE NO. D01MA0022

The Project Turnabout, Inc. property contains two manholes with approximately 3 foot wide openings and a depth of approximately 6 feet. The two manholes present falling hazards; however, Project Turnabout, Inc., although a public, non-profit corporation, is not a government agency, and the manholes do not qualify for removal. The South Shore Conservatory of Music property contains an abandoned former DOD garage (Building No. 123) and greenhouse (Building No. 45) which do not qualify for removal as structural hazards because they have not been in continuous government ownership. Storehouse No. 124 located in Bare Cove Park (Town of Hingham recreation property) has holes in the roof, but is otherwise structurally sound.

c. OEW. The site is a former large munitions manufacturing and testing facility. Previous excavation by the Town of Hingham along the east bank of the Weymouth Back River in Bare Cove Park uncovered extensive munitions-related debris (gas masks, empty shell casings, etc.) as well as some live ordnance. Erosion of the shore has caused a slow continual exposure of more of this material. Dredging of the river bottom has revealed a great deal more of this refuse with a larger amount of what could be live shells and other explosive devices. While the river has the greatest concentration of known buried ordnance, the entire site has potential for containing OEW contamination.

**AVAILABLE STUDIES AND REPORTS:** None identified.

**DIVISION POC:** Robert L. Batt, CENED-RE-AM, 617-647-8590.

PROJECT SUMMARY SHEET  
FOR  
DERP-FUDS OEW PROJECT NO. D01MA002204  
PROPERTY OF TOWN OF HINGHAM AND OTHERS  
(HINGHAM NAVAL AMMUNITION DEPOT)  
HINGHAM, MASSACHUSETTS  
SITE NO. D01MA0022  
15 October 1993

**DESCRIPTION OF OEW HAZARD:** Excavation by the Town of Hingham along the east bank of the Weymouth Back River in Bare Cove Park uncovered extensive munitions related debris (gas masks, empty shell casings, etc.) as well as some live ordnance. Erosion of the shore has caused a slow continual exposure of more of this material. Dredging of the river bottom has revealed a great deal more of this refuse with a larger amount of what could be live shells and other explosive devices. While the river has the greatest concentration of known buried ordnance, the entire site has potential for containing OEW contamination.

**PROJECT ELIGIBILITY:** The Navy owned and used the site as a large munitions manufacturing and testing facility.

**POLICY CONSIDERATIONS:** The town has not brought any ordnance onto the site.

**PROPOSED PROJECT:** This INPR will be referred to CEHND-PM-OT for further action.

**RAC:** Attached.

**DD FORM 1391:** N/A.

**DIVISION POC:** Robert L. Batt, CENED-RE-AM, 617-647-8590.

PROJECT SUMMARY SHEET  
FOR  
DERP-FUDS CON/HTRW PROJECT NO. D01MA002201  
PROPERTY OF TOWN OF HINGHAM AND OTHERS  
(HINGHAM NAVAL AMMUNITION DEPOT)  
HINGHAM, MASSACHUSETTS  
SITE NO. D01MA0022  
15 October 1993

**DESCRIPTION OF CON/HTRW HAZARD:** There is one abandoned 55-gallon drum, sealed and about 1/4 full, in Storehouse No. 99 on School Tract No. II. There is one broken-open abandoned transformer located in a pile of debris at the western end of the foundation for former Building No. 165 located in Bare Cove Park. Both areas are owned by the Town of Hingham. The drum and transformer may contain environmental contaminants.

**PROJECT ELIGIBILITY:** The drum and transformer were abandoned by the military at the time of transfer out of DOD.

**POLICY CONSIDERATIONS:** There has been no use made of the drum or transformer subsequent to DOD disposal of the site.

**PROPOSED PROJECT:** The project consists of removal and disposal of one abandoned sealed 55-gallon drum estimated to be approximately 1/4 full of some unknown liquid and removal and disposal of one ground-level empty transformer casing and contaminated soil, if any.

**DD FORM 1391:** Attached.

**DIVISION POC:** Robert L. Batt, CENED-RE-AM, 617-647-8590.

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FORMERLY USED DEFENSE SITES  
FINDINGS AND DETERMINATION OF ELIGIBILITY  
DERP-FUDS SITE NO. D01MA0022  
PROPERTY OF TOWN OF HINGHAM AND OTHERS  
(HINGHAM NAVAL AMMUNITION DEPOT)  
HINGHAM, MASSACHUSETTS

FINDINGS OF FACT

1. The site, consisting of approximately 990.262 acres fee, was acquired between 1888 and 1913, excepting an approximately 44 acre fee parcel acquired in 1942, by purchase and condemnation.

2. The Navy used the Hingham Naval Ammunition Depot as a munitions manufacturing and testing plant to supply munitions to ships and aircraft primarily during the preparation and engagement of World Wars I and II. Construction of the buildings and other improvements began in 1909. By 1958 the depot contained 187 buildings; including warehouses, personnel housing, and munitions production facilities. The site was not under other than DOD control during the period of DOD use.

3. The site was closed in 1960 and approximately 990.262 acres fee were reported to General Services Administration (GSA) for disposal in 1962. Approximately 753.262 acres fee were later withdrawn from excess by the Navy until they were again reported to GSA for excess in 1970 and 1971. GSA conveyed approximately 237 acres fee to the Town of Weymouth to be used and maintained for public park and recreation purposes by deed, dated 24 October 1966. The deed retained various easements for utilities. The deed also contained clauses requiring the filing of biennial reports with Department of Interior (DoI); restricting sale, lease or disposal except to another government agency as approved by DoI; recapture by the Government in times of national emergency; and reversion of title to the Government, at its option, for breach of conditions. The deed does not contain a restoration clause. GSA assigned approximately 7.267 acres fee and the structures thereon to the Department of Health, Education, and Welfare (HEW) which in turn conveyed it to Project Turnabout, Inc. for educational purposes by deed, dated 5 May 1972. The deed retained an easement to the Government for a power cable. The deed also contained clauses requiring that the property be used for educational purposes for thirty years; that the grantee not sell, lease, dispose of, or encumber the property without written approval of HEW; that the grantee file annual reports on operation and maintenance with HEW; that title shall revert to the

Government, at its option, for violation of any of the conditions therein; and that the Government may recapture the property during times of national emergency. The deed does not contain a restoration clause.

GSA assigned approximately 460.7 acres fee to DoI which, acting through its Bureau of Outdoor Recreation, conveyed the land to the Town of Hingham to use and maintain for public park or public recreation purposes in perpetuity by deed, dated 12 May 1972. A corrective deed, dated 27 June 1973, under the same terms and conditions, was issued to correct the legal description and show the area conveyed to be approximately 460.3 acres fee. Both deeds are subject to existing reservations, easements, and rights-of-way; rights of the Government to all oil, gas, and other minerals on the property; and the right to sell and remove all railroad trackage and appurtenances located on the land. Both deeds also require that the Grantee within six months permanently erect a sign at the entrance indicating the property's use as a park; that the property will not be sold, leased, assigned, or otherwise disposed of except, by written permission of the DoI, to another Government agency which can provide the same public recreation services; that the Grantee must submit biennial reports to DoI; and that title to the property will revert to the Government, at its option, if it is determined that it is needed for national defense or for breach of any of the conditions contained therein. The deeds do not contain restoration clauses.

GSA conveyed approximately 43.861 acres fee to James Salah by deed, dated 14 December 1973, for consideration of \$ 210,000. The deed contained no conditions regarding recapture, reentry, restoration, or other special requirements. GSA assigned the following described property to HEW which in turn conveyed it to the Town of Hingham for educational purposes. HEW issued three deeds, all dated 17 December 1973. The deeds were for School Tract No. I - 6.365 acres fee, School Tract No. II - 18.1 acres fee, and School Tract No. IV - 39.691 acres fee. All three deeds contain conditions requiring use of the property for educational purposes for thirty years; that for the thirty years the Grantee will not sell, lease, mortgage, encumber, or otherwise dispose of the property without written permission of HEW; that the grantee will file annual reports on the operation and maintenance of the property; that title will revert to the Government, at its option, for breach of any of the conditions therein; that the conditions contained in the deed may only be abrogated by consent of HEW or by payment as

described therein; and that the Government may recapture the property during times of national emergency. The deed does not contain a restoration clause. GSA conveyed approximately 85.6 acres fee to the Trustees of Hingham Property Trust by deed, dated 19 December 1973, for consideration of \$ 861,100. The deed contained no conditions regarding recapture, reentry, restoration, or other special requirements. GSA assigned approximately 3.845 acres fee to HEW which in turn conveyed it to the South Shore Conservatory of Music, Inc. by deed, dated 22 February 1974 for educational purposes. The deed contains the same terms and conditions as the above-stated deeds, dated 17 December 1973, for School Tracts Nos. I, II, and IV excepting only that it also contained a condition requiring that during the period of restricted use all monies received by the grantee for the sale or lease of mineral rights will be held in trust for the Government and are subject to direction and control of HEW and that the Government also reserves the right to revert title to any and all mineral rights, at its option, during the period of restricted use.

GSA conveyed approximately 86.014 acres fee to Joseph A. Saponaro by deed, dated 16 August 1976, for consideration of \$ 151,000. The deed reserves easements for a Right-of-Way and utilities to the South Shore Conservatory of Music, Inc.; otherwise the deed contained no conditions regarding recapture, reentry, restoration, or other special requirements. GSA assigned approximately 2.219 acres fee to the Department of Education (DoE) which in turn conveyed it to South Shore Day Care Services, Inc. by deed, dated 25 September 1984 for educational purposes. The deed reserves to the Grantee an easement for a Right-of-Way through adjacent Town of Hingham property. The deed contains the same terms and conditions as the above-stated deeds, dated 17 December 1973, for School Tracts Nos. I, II, and IV excepting only that the term of controlled usage is 27 years; that during the period of controlled usage the Grantee will remain a nonprofit agency; and that it does not contain a recapture clause during national emergencies.

SITE NO. D01MA0022

DETERMINATION

Based on the foregoing findings of fact, the site has been determined to be formerly used by DOD. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 USC 2701 et seq.

10 NOVEMBER 1993  
Date

  
\_\_\_\_\_  
BRINK P. MILLER  
Colonel, Corps of Engineers  
Commanding

PROJECT SUMMARY SHEET  
FOR  
DERP-FUDS BD/DR PROJECT NO. D01MA002202  
PROPERTY OF TOWN OF HINGHAM AND OTHERS  
(HINGHAM NAVAL AMMUNITION DEPOT)  
HINGHAM, MASSACHUSETTS  
SITE NO. D01MA0022  
15 October 1993

DESCRIPTION OF BD/DR HAZARD: The Massachusetts Department of Public Works (DPW) property contains three abandoned former DOD buildings which the DPW are requesting be removed. Two of the buildings are structurally sound. The third building, No. 156, is a dilapidated steel structure with the sides falling off and a portion of its steel support system missing; it is a structural hazard. The Massachusetts Division of Fisheries and Wildlife (DFW) property contains five subsurface Powder magazines each of which has a seven foot vertical drop when approached from the slope side. Each of the magazines constitutes a falling hazard. The Town of Hingham School Tract No. II contains a former DOD administration building (2 story) with numerous openings on the second floor more than six feet above the next lower level. The openings constitute a falling hazard. The administration building also contains asbestos. There is a concrete block storehouse (200' x 40') with a roof and walls which could cave in; this building constitutes a structural hazard. There is an 18 inch wide manhole located to the east of the former communications building. The manhole is filled with water to within four feet of the top. The manhole constitutes a falling and drowning hazard. The Town of Hingham School Tract No. IV contains an abandoned former DOD pumphouse (Building No. 161), which has a dilapidated platform and stairway inside which could collapse causing serious injury. The pumphouse building constitutes a falling hazard; also, asbestos is suspected to be present in the building structure and on the surrounding ground. The Town of Hingham Bare Cove Park recreation area contains the following abandoned former DOD structures: a coal fired boiler house with a sagging roof with two holes in it--the building constitutes a structural hazard because of the roof. (also, the building contains two furnaces and two water tanks all four of which are encased in asbestos insulation); a dilapidated wooden gatehouse on Fort Street which is in a severe state of disrepair and which constitutes a collapsing hazard; Storehouses Nos. 18 and 29 (located next to each other) which are in a state of extreme disrepair--the rotting roofs and deteriorating walls constitute a structural hazard;

PROJECT NO. D01MA002202

eight subsurface concrete bunkers which have falls of over seven feet--each of these bunkers constitute a falling hazard; eight holes approximately six foot in depth (five are manholes and three are of unknown origin), two of the holes with covers which are easily removed and the other six are open--each of these holes constitute a falling hazard; and a deteriorated dock (No. 2) with a concrete deck and concrete pilings which are deteriorated to the point that only the reinforcing rods remain--the dock constitutes a falling, drowning, and structural hazard. The Project Turnabout, Inc. property contains two manholes with approximately 3 foot wide openings and a depth of approximately 6 feet. The two manholes present falling hazards; however, Project Turnabout, Inc., although a public, non-profit corporation, is not a government agency, and the manholes do not qualify for removal. The South Shore Conservatory of Music property contains an abandoned former DOD garage (Building No. 123) and greenhouse (Building No. 45) which do not qualify for removal as structural hazards because they have not been in continuous government ownership. Storehouse No. 124 located in Bare Cove Park (Town of Hingham recreation property) has holes in the roof, but is otherwise structurally sound.

**PROJECT ELIGIBILITY:** The buildings, batteries, manholes, and other structures were installed and utilized by DOD as part of their operation of the Hingham Naval Ammunition Depot. The falling, drowning, and unsound structure hazards appear to have existed at the time DOD's use of the property ceased.

**POLICY CONSIDERATIONS:** The administration building and storehouse on Hingham School Tract No. II have not been used since disposal by the military. The pumphouse on Hingham School Tract No. IV has not been used since disposal by the military. The boiler house, Fort Street gatehouse, Storehouses 18 and 29, eight subsurface bunkers, eight holes, and Dock No. 2 in Bare Cove Park have not been used since disposal by the military. The two manholes on Project Turnabout, Inc. property present a falling hazard; however, as a private, non-profit corporation, Project Turnabout, Inc. does not qualify for removal of structural hazards. The Massachusetts Department of Public Works (DPW) and Massachusetts Division of Fisheries and Wildlife (DFW) land was previously owned by a private party subsequent to DOD disposal. DERP-FUDS policy requires that property must have been under continuous public ownership in order to qualify for BD/DR remediation. Therefore, the three structures requested for removal by DPW and the five subsurface powder magazines requested for removal by DFW do not qualify. Likewise, the garage and greenhouse requested for removal by the South Shore Conservatory of Music, a private corporation,

PROJECT NO. D01MA002202

also does not qualify for BD/DR. Storehouse No. 15 in Bare Cove Park was previously used in connection with a children's field hockey area. Regulations require that structures proposed for removal must have had no use made of them since the time of disposal by DOD; therefore, Storehouse No. 15 does not qualify. Storehouse No. 124 is not structurally unsound. Regulations require that a structure must present a hazard in order to qualify for removal under BD/DR. Structure No. 124 does not qualify for removal. The communications building on Hingham School Tract No. II does not constitute an unsafe hazard and, therefore, does not qualify for removal under BD/DR. The administration building, pumphouse, and boiler house contain asbestos.

**PROPOSED PROJECT:** The project consists of the destruction and back filling of nine holes (seven manholes and two open holes); the destruction and backfilling of eight subsurface bunkers; and the destruction, debris removal, and site restoration of seven buildings (the administration building and storehouse No. 99 on School Tract No. II, the pumphouse No. 161 on School Tract No. IV, and the boiler house, Fort Street gate house, storehouse No. 18, and storehouse No. 29 in Bare Cove Park) and Dock No. 2 in Bare Cove Park. The administration building, pumphouse, and boiler house contain asbestos.

**BD/DR CHECKLIST:** Attached.

**DD FORM 1391:** Attached.

**DIVISION POC:** Robert L. Batt, CENED-RE-AM, 617-647-8590.

October 26, 1994

Mike Harper  
US Army Technical Center  
for Explosives Safety  
Army Defense Ammunition Center & School  
Savanna, IL 61074-9639



ATTN: SMCAC-ESL (T. Reinhardt)

RE: Formerly Used Defense Sites in Massachusetts

MHC #13152

Dear Mr. Harper:

Thank you for your inquiry concerning formerly used defense sites in Marion, Belmont, Edgartown/West Tisbury, Wellfleet, Mashpee, and Hingham, Massachusetts, for which a study for potential ordnance and explosives waste contamination is being undertaken by your agency.

Review of MHC's Inventory of Historic and Archaeological Assets of the Commonwealth indicates that only the defense sites located in Hingham and at South Cape Beach in Mashpee have been previously subjected to historic and archaeological resource surveys. Neither the Hingham nor Mashpee location contains any significant historic or archaeological properties.

The remaining former defense sites you referenced have not been subjected to any historic or archaeological resource surveys. MHC requests that a cultural resources survey be undertaken at the defense sites in Marion, Belmont, Edgartown, and Wellfleet to identify historic structures and archaeological sites that might be impacted by the proposed cleanup activities. Special attention should be paid to completing a MHC historic building, area or structure inventory form for all batteries, gun blocks, etc. associated with the military use of the site, as well as for earlier historic periods. A copy of MHC's Survey Manual has been sent to you under separate cover, for your use.

For your information, enclosed please find a copy of the MHC's inventory form for the Martha's Vineyard Airport Passenger Terminal in Edgartown, which does not contain sufficient information with which to apply the National Register criteria of eligibility.

These comments are offered to assist in compliance with Section 106 of the National Historic Preservation Act of 1966 as amended (36 CFR 800).

Sincerely,

Brona Simon  
State Archaeologist  
Deputy State Historic Preservation Officer  
Massachusetts Historical Commission

Enclosure

xc: Kate Atwood, Army Corps

Massachusetts Historical Commission, Judith B. McDonough, Executive Director, State Historic Preservation Officer  
80 Boylston Street, Boston, Massachusetts 02116-4802 (617) 727-8470 Fax: (617) 727-5128 TDD: 1-800-392-6090

Office of the Secretary of State, Michael J. Connolly, Secretary

E-6

HISTORICAL STUDY OF NAVAL AMMUNITION DEPOT

FOR DERP PROJECT

BARE COVE PARK, HINGHAM, MA

Richard S. Kanaski  
Archeologist

New England Division  
U.S. Army Corps of Engineers

1985

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## Introduction

The following study is directed toward an analysis of standing structures proposed for demolition under the Defense Environmental Restoration Program at the former Naval Ammunition Depot, Hingham, MA. The study consists of: (1) Historical Background; (2) Description of Structures & Depot Layout; and (3) Historical/Architectural Significance.

## Historical Background

The Naval Ammunition Depot (NAD) is located on a 905 acre tract near the mouth of the Weymouth Back River - 697 acres in Hingham and 208 acres in Weymouth (Maps; Carson 1945:2, Public Works 1937:86; Anon n.d.:1; Schroeder 1980:53). The Depot now is broken into Great Esker Park (the Weymouth tract), Bare Cove Park (490 acres on the shore of the river), the Hingham School District, and residential and office park development (207 acres with frontage on Beal and Fort Hill Streets).

The Hingham acreage was formerly known as "Hockley" and was used primarily for agricultural purposes until Naval acquisition. Along the shoreline, a number of shell middens, evidence of aboriginal use, exist. Tucker's Swamp (Map #1) was the site of an 18th century peat cutting industry. The cut peat was stored in one of approximately 25 buildings prior to its sale. A beach, where the Depot's Dock #2 is located, was used for swimming during the 19th century (Richardson 1985:1). A gundalow was wrecked on the shore approximately 100 feet south of Dock #1 in the early 19th century (Baker 1978; Richardson: pers. comm.; Ruth Baker: pers. comm.).

A Board of Naval Officers was appointed by the Secretary of the Navy in 1903 to recommend a site or sites for a Naval Magazine on the New England Coast north of Cape Cod (House Document No. 7:1). The new Magazine was to replace an older Magazine at Chelsea, Massachusetts and serve the Boston and the Portsmouth Navy Yards (Carson 1945:1; House Document No. 7:7). The site in Hingham, recommended by the Board, met the requirements established by the Bureau of Ordinance (House Document No. 7: 2-3, 6-7; Appendix 1, Map 2). Acquisition of the land was begun in 1906 and completed in 1913; with 697 acres purchased in Hingham and 208 acres in Weymouth (Carson 1945:2).

Lt. Commander J. L. Latimer (USN) took command of the Depot as the Inspector of Ordinance in Charge in June 1909. Latimer completed the initial development and construction of buildings and utilities in one and a half years. Munitions, tools, blueprints, and records were sent from the deactivated Magazine at Chelsea in 1911. (The Chelsea facilities were converted to a Naval Hospital). The U.S.S. Missouri, also in 1911, temporarily stored its munitions at the new Depot (Carson 1945:2; Anon n.d.:1; Schroeder 1980:54).

An expansion of the facilities for storage and production began with the onset of World War I. The only type of munition actually assembled at the Depot was gun ammunition, but mines, torpedoes and pyrotechnics were also stored and issued from the here (Carson 1945:2; Anon n.d.:2; Schroeder 1980:54). Horrard Bros. and Kennedy & Peterson constructed a number of magazines, barrack additions, and other buildings (Charlestown Navy Yard (NY) Photographs). A detachment of Marines provided security and fire protection for the Depot. They maintained Dock and Gate watches, patrolled the ground by horseback during daylight, manned the fire equipment, and operated the telephone exchange (Carson 1945:7; Obie Bridges, pers. comm.).

At the southern end of the Depot, a Naval Training Station was built circa 1917-1918 (Maps 1 and 3, Photo #1). The station consisted of a number of wood frame structures, i.e. Barracks, Garage, Drill Halls, Guard House, and Pier (CNY Photos, Obie Bridges, pers. comm.). It ceased operation and was demolished by 1925 (Aerial Photo - 1925 (Map #3).

Work at the Depot continued after World War I for several months at a feverish pace, essentially disposing of munitions from the various U.S. Navy Fleets. The civilian work force was gradually reduced to about 125 employees till 1939 (Carson 1945: 2-3).

The Depot's chief ordinance functions between World War I and II were:

"(a) Assembly, storage, and issue of Target Practice Ammunition to vessels operating out of the First Naval District.

(b) Overhaul of Service Ammunition aboard vessels five years.

(c) Complete breakdown and reassembly of Service Ammunition aboard vessels ten years.

(d) Assembly and shipment of initial allowance for the occasional vessels commissioned in this area.

(e) Maintenance of powder records and the provision of facilities for the testing of ships' powder.

(f) Overhaul of ammunition, components, and details in stock to maintain them in serviceable condition.

(g) Breakdown and disposition of unserviceable and obsolete ammunition in stock, much of which was of World War I assembly." (Carson 1945:4).

The materials and methods for the handling of munitions were "of the most primitive kinds." Tools and handling gear of all types were scarce. Construction of any additional facilities was very limited till 1939, essentially due to the lack of funds. Maintenance of the Depot's buildings was limited to upkeep of the grounds, and minor repairs to the railroad tracks and buildings (i.e. roofs). (Carson 1945:5).

The Depot's Personnel (from the end of World War I to 1939-40) included:

- Commanding Officer (Inspector of Ordnance in Charge)
- Executive Officer (head of the Industrial Department)

The Industrial Department

125 Civilian Employees

- 1 Locomotive Engineer
- 2 Brakemen
- 3 Mechanics

Ordnance Work

- Ammunition Officer
- Powder Inspection Officer

60 Ordnancemen

2 Clerks

Civil Service

Medical Department

- Medical Officer
- 3 Pharmacist's Mates

Marine Detachment

- 2 Officers
- 60 Enlisted Men

(Carson 1945: 2,5,6,7).

By 1937, 130 buildings were connected by 11 miles of track (Public Works 1937:86).

The start of World War II in Europe increased the work loads of all U.S. Naval Depots. Expansion at the Hingham Naval Ammunition Depot began in 1937 due to its proximity to the North Atlantic shipping lands and the early phases of submarine warfare. Naval activity - large scale anti-submarine activity, arming of merchant vessels, large increase in armed District and Coast Guard crafts, as well as the expanded shipbuilding programs in nearby yards, and the establishment of new air bases and several training commands within the First Naval District - increased the demands for the production and issuance of large quantities of munitions (Carson 1945:8-9, Anon n.d.:2).

Between 1936-41, the WPA began the modernization of certain facilities, i.e. the construction of a Coal Bunker (1936- CNY Photos/WPA Project 09-99), modernization of electrical facilities, replacement of ceilings, floors and roofs, and construction of sub-surface magazines.

WPA designs, materials and labor were used in the construction of new magazines and other miscellaneous buildings and additions to filling houses (Carson 1945:11; CNY Photos - WPA Projects).

Two contracts were let in 1941 to further expand the existing Depot - Contract NOy - 4511 to Walter L. Ritchie Co. and Contract NOy -4961 to T. Stuart & Son, Co. Walter L. Ritchie Co. constructed ten magazines of various types. Contract NOy - 4961 covered all large major improvements without the Depot and a major part of the construction of the Naval Magazine Annex at Cohasset (Carson 1945: 11,12; Spalding 1944; See Appendix 2).

Two pieces of property abutting the Depot were acquired in 1941-42 - 20 acres known as Hingham's "Poor Farm" and 11 acres bordering on Fort Hill Street near the Main Gate. The acquisition of the "Poor Farm" enabled the Depot to meet stricter Bureau of Ordinance's Safety standards, to enhance security along frequently traveled roads, and provided the only land available within the boundaries of the Depot for the construction of personnel quarters and inert warehouses. The Fort Hill tract provided a site large enough for the construction of a large central garage and approaches (Carson 1945: 11-12; Spalding 1944: 54-57, 72-75).

Traffic of munitions (especially from high explosive and projectile storage and shipping facilities) grew at the Depot. The necessity for purchasing additional land for at least 80 magazines arose in Summer 1941 (Spalding 1944:66; Carson 1945:28). Approximately 3800 acres of undeveloped area within the towns of Hingham, Cohasset, Scituate, and Norwell and about four miles east of the Depot was condemned and taken in October 1941 (Spalding 1944: 66-69; Anon n.d. 3; Schroeder 1980:54).

The WPA had a limited role in the construction of the new Annex - topographical surveys and mapping of proposed project sites, clearing of the magazine sites and the boundary lines, erection of boundary fences, and planting of Vinca minor vines on the slopes and earth covering of the subsurface magazines (Spalding 1944:94).

Contingent with the construction of new magazines and other buildings was the improvement and expansion of road and rail facilities. The roads were built to handle 30-ton tractor trailer diesel trucks. The original rail system was a single-track extension of a New York, New Haven and Hartford Railroad spur. The track ran in loops throughout the Depot with sidings at the Magazines and Filling Houses. The construction and/or expansion of facilities, such as Dock #2, "Poor Farm" Inert Storehouses, "D" Loading Plant, 20 MM Buildings, and the increased rail freight shipment to and from the Depot seriously overcrowded the old lines. An additional spur and a Classification Yard were laid to facilitate the movement of munitions within the Depot and to lessen the risk of a collision (Carson 1945: 15-16; Spalding 1945:50).

An increase in the Depot's military and civilian personnel corresponded with the war effort and the expansion of the Depot's facilities. The civilian complement reached 2378 by 1945. Additional housing for the Naval and Marine detachments was acquired or built. Three residences on the "Poor Farm" and adjoining properties were acquired by the Navy. Two were renovated for Married Officers' Quarters (M&L). The third one (Qtrs. O) was renovated for a BoQ. Two additional Married Officers' Quarters were built in inert areas (Carson 1945: 23-24; Spalding 1944: 56-57). Housing for the Enlisted Men was located in two Barracks groups. One group for the Naval EM. was located in the "Poor Farm" and was constructed in 1943. This group consisted of three buildings - a two-story building with quarters for 300 men, a building containing a galley, a kitchen and recreational facilities, and a boiler house. A recreational building was added in 1944. The latter group centered around the 1917-18 Marine Barracks. A temporary annex was constructed to provide quarters for 54 men (Carson 1945:24; Spalding 1944: 54-56).

Office/Administrative personnel also increased. A new two-story ell was added onto the existing Administration Building (Bldg. 114). The administration was eventually decentralized with the exceptions of the Offices of the Commanding Officer, the Executive Officer, and the Ammunition Department. The various departments moved to locations near the shops where the work under them was carried out and enabled closer supervision of the munitions work (Carson 1945: 26-27).

The Ammunition Training School, completed in 1944, was the only other major piece of construction and consisted of several Quonset Huts joined together by temporary construction. The School was located in the south-east corner of the Depot near the junction of Fresh River Avenue and Fort Hill Street. The undeveloped locale served as training grounds for advance base conditions (Carson 1945:27).

As the war continued, the majority of fleet and anti-submarine units moved to the Pacific. New production, outfitting, and replacement operations kept the Depot expanding on a reduced scale up to V-J Day. The Depot largely produced V.T. fuses for the U.S. Army and 5"00 Rocket Motors for local use and shipment to the Pacific Theater (Carson 1945:9).

Production was curtailed shortly after the war's end. The magazines filled with munitions from newly decommissioned fleet units. Employment of civilians dropped to 366 and remained there until November 1949. The Bureau of Ordnance placed the Depot on maintenance status at that time. Civilian employment dropped to 50.

The Depot was reactivated to full operation at the start of the Korean Conflict in June 1950. Its mission was to maintain ammunition and explosives in stores, furnish reserve capacity for excessive loads placed in NAD (Earle, New Jersey) and to produce, overhaul/rework rockets. The Cohasset Annex was reactivated in 1951 essentially due to the increased ammunition reconditioning and rocket loading operation at NAD. Two

buildings were constructed as Guided Missile Check-Out Facilities and subsequently manned by Guided Missile Service Unit #215. Manpower also increased at the Depot and the Annex.

| Officers* | Table 1 Manpower during the Korean Conflict |           |           |
|-----------|---|-----------|-----------|
|           | Enlisted Men                                | Civilians | Date      |
| 22        | 169   | 535       | 1950      |
| 12        | 78  | 1197      | May 1951  |
| 31        | 216   | 1600      | Nov. 1951 |
| 27        | 198   | 1597      | 1952      |
| 25        | 150   | 1047      | 1956      |

(Anon n.d.:3-4; Navy Proj.: Seg. Building 1948:25; Navy Proj: Improvements to Facilities 1951: 1&2; Navy Proj: Inert Storehouses 1952: 3,5; Navy Proj: New Barracks 1951:1; Navy Proj: G.M. Support Facilities 1956:1).

Ordinance activity at the Depot and the Annex ceased shortly after the end of the Korean Conflict. The Depot was declared as surplus in 1971 (Richardson 1985:2; Batt 1984 or 5?).

An Ammunition Depot Committee was appointed in 1972 by the town of Hingham to manage and prepare the property for public use and develop a Master Plan for future use. The Depot was officially transferred to the town of Hingham in May 1972 under Nixon's "Legacy of Parks Program."

The Park's Master Plan opted for passive-use of the bulk of the Depot, i.e. hiking and bicycle trails, picnic areas. Land and buildings were turned over to the Hingham School District, Hingham Recreation Department (Pop Warner Baseball Fields), the South Shore Music Conservatory (Qtrs. A, Bldgs. 45 and 123), the Boy Scouts (Bldgs. 172 and 176), a Substance Abuse Treatment Program (Qtrs. O, Bldgs. 143 and 149), AMEGO, a program for exceptional children (Qtrs. ?), the Office of the New England Wildlife Center (Qtrs. I and Garage), and the Bare Cove Fire Museum (Bldg. 112). Acreage along Beal and Fort Hill Streets were zoned for residential development and an Office Park. Dock #2 was used as a mooring and loading facility by Ernest Minella of Hull during the late 1970's. Mr. Minella was transporting stone from a local quarry to the Boston Harbor Islands State Park. One of his barges caught fire and sank at the North Fender in 1980. Hingham Fire Department burnt Qtrs. J. periodically to practice rescue techniques (Map 4).

Demolition and removal of a number of buildings and the railroad tracks were done prior to the opening of the Park (See Appendix 3). The acreage in Weymouth became Great Esker Park. The Cohasset Annex became Wampatuck State Park. Residential construction includes Beal Cove Village (a completed apartment complex) and Hingham Woods (condominiums, construction in progress).

THE NAVAL AMMUNITION DEPOT

Voters will act at Town Meeting on seven articles designed to protect its potential as a beautiful and productive part of Hingham

THE NAVAL AMMUNITION DEPOT is no longer needed by the Federal government. The Depot includes over 750 acres of land and water:

Lands suitable for tax-producing private development

Lands and facilities for recreation (the "PAL" center) and for future school needs, available to the Town without cost

Lands and waters for conservation and recreation, including wetlands and over 3 miles of salt water shoreline, available to the Town without cost

THE TOWN CAN CONTROL THE FUTURE OF THE DEPOT --can encourage sound private development and secure lands and waters for public purposes-- by action at Town Meeting to

1) Approve four new zoning by-laws applicable to the Depot

Articles 13, 14 and 15 on the regular Town Meeting Warrant, and Article 1 on a Special Town Meeting Warrant, establish new zoning districts applicable to Depot, as described below.

2) Apply appropriate zoning by-laws to the Depot

Article 2 on the Special Town Meeting Warrant zones portions of the Depot for private development under the four new by-laws:

Office Park District, 49 acres

Single-family Residence "D" District, 246 acres

Planned Unit (multi-family) Residence "E" District, 110 acres

Waterfront Recreation District, app. 8 acres

Article 3, Special Town Meeting Warrant, places Depot tidelands (and others in the Town) in the existing Flood Plain and Watershed Protection District

3) Authorize Selectmen to acquire Depot lands for the Town

Article 17(a), regular Town Meeting Warrant, authorizes Selectmen to negotiate for acquisition as follows:

Educational purposes, 106 acres (no cost)

Conservation and recreation purposes, 140 acres (no cost)

Recreation purposes ("PAL" property), 5 acres (no cost)

Internal access roads (no funds requested)

--The Naval Ammunition Depot Study Committee  
Louville Niles, Chairman

The land encompassing Bare Cove and Great Esker Park was designated an Area of Critical Environmental Concern by the Commonwealth of Massachusetts in 1982. Bare Cove Park was also designated as a Wildlife Refuge by the town of Hingham in 1985. In 1980 and 1985, the Park Committee reached agreements with the abutting private developers to set aside a parcel of land to act as a natural buffer which would protect the Great Blue Heron Roosting Area in Tucker's Swamp.

Each structure planned for demolition is described in detail on the attached Mass. Historical Commission Building Forms, with locations shown on the Depot's maps.

The buildings, except the Barracks, the Dispensary, the Administration Building, the Ammunition Handling School Buildings, and the various Officers' Quarters were connected by 11-12 mile loops of rail; all the buildings were connected by roads. The Depot can be separated into areas where magazines, et.al. of particular type/construction and time period are grouped together.

The subsurface magazines hug the shoreline in a linear pattern:

- Bldgs. 86-90 (Powder),
- Bldgs. 126-130 (Black Powder),
- Bldgs. 140-141 (Pyrotechnic) and,
- Bldgs. 134, 135, 139.

The Storehouses were located in a linear pattern along the peripheries of the Depot:

- Bldgs. 153-155 (Northern border, near Beal and Lincoln Sts junction),
- Bldgs. 95-103 (Beal Street Border),
- Bldgs. 105-108 (Southeast Boundary, along Fort Hill Street).

The Mine Storehouses (Bldgs. 53 and 54) were located in the northwest corner, just south of Dock #1. The Magazines (3 different styles) were located as follows:

- A) Bldgs. 15, 21-23 (northwest of Beal Cove),
- B) Bldgs. 18-50/51 and 52 (a linear pattern running northwest to southeast),
- C) Bldgs. 56-59 (a loop which runs just west of Dock #2),  
Bldgs. 60-62 (a loop of rail, south of Beal Street and Storehouses 97-102),  
Bldgs. 65-70, 73-78, 80-82 (southern loop of rail and road).

The Officers' Quarters and Enlisted Men's Barracks were placed in inert storage areas and along the peripheries of the Depot. The Enlisted Men's Barracks were constructed in two groups:

(1) Naval Barracks and associated mess, recreational and heating plant facilities (north of Qtrs. 0).

(2) Marine Barracks, Marine Barracks Annex, Quartermaster Stores, Dispensary, Garages, and Recreation Facilities (west of the Main Gate, northeast corner of Depot).

The Naval Training Station was located in a rectangular shaped area south of Magazine 73-80. The Cluster of Bldgs. (Bldgs. 171-174, 176) for the Ammunition Handling School were constructed in the undeveloped southeast corner of the Depot.

The remaining buildings were scattered throughout the Depot in locations determined by function and topography.

A number of Magazines and other types of buildings have been demolished within the Park and abutting residential developments. The buildings that stand, both in the Park, the School District and Private Property are in varying condition. The magazines' walls and foundations are in good shape, but their roofs display various stages of decomposition.

#### Historical/Architectural Significance

On the basis of currently available data, none of the individual structures proposed for demolition are eligible for the National Register of Historic Places. The depot dates from 1906-1959 and functioned during World Wars I and II, and the Korean Conflict, significant events in American history. This depot functioned as one of the major production, storage and issuance facilities for Naval Munitions in the North Atlantic Region during this time period.

Its construction history can be broken into three building periods:

- (1) 1909-1911: initial construction of buildings and utilities. No buildings from this period remain.
- (2) 1917-1919: the majority of the magazines, storehouses, filling houses, Barracks, Naval Training Station were built.
- (3) 1939-1943: construction of a number of subsurface magazines, Magazines (137, 153-155), Naval Barracks, Dock #2 and the Ammunition Handling School; Renovation of rail and road systems, existing magazines, and acquired residences.

Photographs, dated 1913-1941, on file at the Charlestown Naval Yard, Boston National Historical Park, document the construction of Bldgs. 48, 49, 50, 51, 53, 54 and E1 Additions, renovations to various buildings (i.e. roofs, floors, stiffening of walls) and the rail and road systems. Extensive photographic documentation of WPA projects (1936-1942) at the Depot are also on file at the Charlestown Naval Yard. No construction progress photographs exist for the 1940's Contracts (Spalding 1944:23). The Magazines appear to be representatives of standardized Naval Ordinance design and show changes in architectural and safety features over time. It is not possible at this time to determine whether examples of this type of construction/design exist elsewhere in the U.S.

Although the Depot appears to satisfy 36 CFR 60.4 a and c ("(a) that are associated with events that have made a significant contribution to the broad patterns of our history; or...(c) that embody the distinctive characteristics of a type, period, or method of construction..."), the integrity of the site is questionable. Within the Park, a number of buildings have been removed (See Map 5 & Appendix). Development of residential property, i.e. Beal Cove Village and Hingham Woods, has also caused the demolition of additional buildings. Future development of the area zoned for office park threatens destruction of even more buildings. Doors, windows, and various fittings are either missing or badly deteriorated.

Safety and health factors must also be weighed in several structures which are in advanced stages of dilapidation, i.e. Dock #1, E1, Bldg. 175, the Swimming Pool. The Magazines are missing doors, window shutters, and roof ventilators. The roofs are in varying stages of decay - asbestos shingles missing, supportive wood boards suffer from dry rot.

United States Navy, Department of Public Works

- 1950 Project: Improve New Loading Dock Area (NAD, Hingham, MA)
- 1951 Project: New Barracks, Ammunition Segregation Facilities,  
Improved Water System for Fire Protection
- 1952 Project: Improvements to Structure's Facilities
- 1952 Project: Improve Magazines and Structures, U.S. Naval Ammunition  
Depot, Hingham, MA
- 1952 Project: Inert Storehouses, Cohasset Annex
- 1952 Project: New Marine Barracks, U.S. Naval Ammunition Depot,  
Hingham, MA

Maps of the Depot

- Public Works Drawing No. 934-399-6 June 30, 1944
- Public Works Drawing No. 934-399-8 Nov. 14, 1944
- Public Works Drawing No. 934-399-9 June 30, 1949
- Bureau of Yards & Docks Drawing No. 594672; #1 of 2 June 8, 1953
- Bureau of Yards & Docks Drawing No. 717049; #1 of 7 Feb. 24, 1959
- John P. Richardson 1985 Bare Park Cove

Photos: (1) Construction & Bldg. Documentation

- 1913-1941 - on file at the Archives; Charlestown Navy Yard, Boston  
National Historical Park, Boston, MA
- (2) Aerial Photos, Archives
- 1925: AN 1917, Charlestown Navy Yard
- 1977: U.S. Army Corps of Engineers, New England Division, Regulatory  
Branch, Waltham, MA

| No. | Location | Use                                   | Current Owner        | Status (1985)                  |
|-----|----------|---------------------------------------|----------------------|--------------------------------|
| 59  | G-6      | Magazine                              | Park                 | Demolished                     |
| 60  | E-10     | Magazine                              | Homar, Inc.          | Foundations & Debris           |
| 61  | F-10     | Magazine                              | Homar, Inc.          | Foundations & Debris           |
| 62  | F-13     | Magazine                              | School District      | Standing                       |
| 63  | F-11     | Magazine                              | Park                 | <u>Proposed for Demolition</u> |
| 64  | G-14     | Magazine                              | School District      | Standing                       |
| 65  | I-10     | Magazine                              | Park                 | <u>Proposed for Demolition</u> |
| 66  | I-8      | Magazine                              | Park                 | Foundations                    |
| 67  | I-9      | Magazine                              | Park                 | <u>Proposed for Demolition</u> |
| 68  | I-11     | Magazine                              | Park                 | <u>Proposed for Demolition</u> |
| 69  | J-8      | Magazine                              | Park                 | <u>Proposed for Demolition</u> |
| 70  | K-7      | Magazine                              | Park                 | <u>Proposed for Demolition</u> |
| 71  | G-9      | Carpenter Shop & Maintenance Dept.    | Park                 | Demolished                     |
| 72  | H-9      | Details Preparation House             | Park                 | Demolished                     |
| 73  | L-7      | Magazine                              | Park                 | Foundations                    |
| 74  | K-8      | Magazine                              | Park                 | Foundations                    |
| 75  | L-8      | Magazine                              | Park                 | Foundations                    |
| 76  | L-9      | Magazine                              | Park                 | Foundations                    |
| 77  | K-10     | Magazine                              | Park                 | Foundations                    |
| 78  | L-10     | Magazine                              | Park                 | Foundations                    |
| 79  | L-10     | Magazine                              | Park                 | Foundations                    |
| 80  | L-11     | Magazine                              | Park                 | Standing                       |
| 81  | L-11     | Magazine                              | Residential Property | Standing, Roof removed         |
| 82  | K-12     | Magazine                              | Residential Property | Standing, Roof removed         |
| 83  | D-6      | Storehouse (Misc. Stores)             | Beal Cove Village    | Demolished                     |
| 85  | G-10     | Filling Shop "E"                      | Park                 | Demolished                     |
| 86  | C-4      | SubSurface Powder Magazine            | Office Park          | Standing                       |
| 87  | C-4      | SubSurface Powder Magazine            | Office Park          | Standing                       |
| 88  | B-4      | SubSurface Powder Magazine            | Office Park          | Standing                       |
| 89  | B-4      | SubSurface Powder Magazine            | Office Park          | Standing                       |
| 90  | B-3      | SubSurface Powder Magazine            | Office Park          | Standing                       |
| 92  | I-15     | Test House Annex                      | Park                 | Demolished                     |
| 93  | H-16     | Labor Dept. Tool House/Gas Test House | Park                 | Standing                       |
| 94  | C-6      | Storehouse                            | Beal Cove Village    | Demolished                     |
| 95  | C-7      | Storehouse                            | Beal Cove Village    | Demolished                     |

| No.  | Location | Use                                      | Current Owner                  | Status (1985) |
|------|----------|--|--------------------------------|---------------|
| 96   | D-8      | Storehouse                               | Homar, Inc.                    | Demolished    |
| 97   | D-9      | Storehouse                               | Homar, Inc.                    | Demolished    |
| 98   | E-11     | Storehouse                               | Homar, Inc.                    | Standing      |
| 99   | E-12     | Storehouse                               | School District                | Standing      |
| 100  | E-14     | Storehouse                               | School District                | Standing      |
| 101  | F-15     | Storehouse                               | School District                | Standing      |
| 102  | F-14     | Storehouse                               | School District                | Standing      |
| 103  | F-15     | Storehouse                               | School District                | Standing      |
| 104  | I-14     | Magazine                                 | Park                           | In Use        |
| 105  | J-14     | Magazine                                 | Residential Property           | Standing      |
| 106  | K-13     | Magazine                                 | Residential Property           | Standing      |
| 107  | L-12     | Magazine                                 | Residential Property           | Standing      |
| 108  | M-12     | Magazine                                 | Residential Property           | Standing      |
| 110  | H-9      | Telephone Exchange/Electric Shop         | Park                           | Demolished    |
| 111  | I-13     | Central Heating Plant                    | Park                           | Standing      |
| 111A | I-13     | Locomotive Shed                          | Park                           | Foundations   |
| 112  | H-13     | Filling Shop "F"                         | Bare Cove Fire Museum          | In Use        |
| 114  | E-13     | Administrative Building                  | School District                | Standing      |
| 115  | G-15     | Quartermaster Stores                     | School District                | Foundations   |
| 116  | H-9      | Case Tank Washing Reforming Tank         | Park                           | Demolished    |
| 117  | H-9      | Blacksmith Shop                          | Park                           | Demolished    |
| 119  | H-15     | Garage/Fire Barn + Garage                | School District                | Foundations   |
| 120  | J-9      | Pumphouse, Reserve Tanks & Heating Plant | Park                           | Demolished    |
| 121  | N-10     | Pumphouse & Reserve Tanks                | Park                           | Demolished    |
| 122  | N-11     | Electric Switch House                    | Park                           | Demolished    |
| 123  | J-12     | Garage (Captain)                         | South Shore Music Conservatory | In Use        |
| 124  | K-11     | Storehouse                               | Park                           | Standing      |
| 125  | N-10     | Garage                                   | Park                           | Demolished    |
| 126  | L-7      | Black Powder Magazine                    | Park                           | Standing      |
| 127  | M-8      | Black Powder Magazine                    | Park                           | Standing      |
| 128  | M-7      | Black Powder Magazine                    | Park                           | Standing      |
| 129  | N-7      | Black Powder Magazine                    | Park                           | Standing      |
| 130  | N-8      | Black Powder Magazine                    | Park                           | Standing      |
| 131  | H-8      | New Filling House "G"                    | Park                           | Standing      |
| 131A | H-8      | "D" Powder Sifting House                 | Park                           | In Use        |

| No. | Location | Use                              | Current Owner                     | Status (1985)                  |
|-----|----------|----------------------------------|-----------------------------------|--------------------------------|
|     | B-2      | Dock #1.                         | Park                              | Pilings Only                   |
|     | E/F-5    | Dock #2                          | Park                              | In Use                         |
|     | G-6      | Barricaded Siding #1             | Park                              | Demolished                     |
|     | F-6      | Barricaded Siding #2             | Park                              | Standing                       |
|     | F-6      | Barricaded Siding #3             | Park                              | Standing                       |
|     | H-16     | Classification Yard              | Park                              | Removed                        |
| 132 | H-17     | Gatehouse                        | Park                              | In Use                         |
| 133 | G-11     | Cartridge Case Filling House "H" | Park                              | Foundations                    |
| 134 | I-7      | Magazine SubSurface              | Park                              | Standing                       |
| 135 | J-7      | Magazine SubSurface              | Park                              | Standing                       |
| 136 | D-4      | Fuse Magazine SubSurface         | Park                              | Standing                       |
| 137 | M-9      | Magazine                         | Park                              | <u>Proposed for Demolition</u> |
| 138 | J-15     | Storehouse                       | Residential Property              | Standing                       |
| 139 | E-8      | Magazine SubSurface              | Homar, Inc.                       | Demolished                     |
| 140 | E-8      | Pyrotec. Magazine SubSurface     | Homar, Inc.                       | Demolished                     |
| 141 | D-6      | Pyrotec. Magazine SubSurface     | Beal Cove Village                 | Demolished                     |
| 142 | C-5      | Magazine                         | Office Park                       | Standing                       |
| 143 | C-6      | Barn                             | Substance Abuse Treatment Program | In Use                         |
| 144 | B-7      | Boiler House                     | Park                              | Standing                       |
| 145 | F-5      | Salt Water Pump, Dock #2         | Park                              | Standing                       |
| 146 | A-5      | Barn                             | Park                              | Demolished                     |
| 148 | A-5      | Shed                             | Park                              | Standing                       |
| 149 | C-6      | Barn                             | Substance Abuse Treatment Program | In Use                         |
| 150 | H-16     | Pump House                       | Park                              | Standing                       |
| 151 | C-5      | Vault                            | Office Park                       | Standing                       |
| 152 | G-15     | Garage                           | School District                   | Foundations                    |
| 153 | B-6      | Storehouse                       | Office Park                       | Standing                       |
| 154 | B-5      | Storehouse                       | Office Park                       | Standing                       |
| 155 | A-5      | Storehouse                       | Office Park                       | Standing                       |
| 156 | B-3      | Smoke Drum Storehouse            | Office park                       | Standing                       |
| 157 | F-14     | Communications Building          | School District                   | Standing                       |
| 158 | A-       | Practice Bomb, Storage Bldg.     | Office Park                       | Standing                       |
| 159 | I-10     | Garage                           | School District                   | In Use                         |
| 160 | I-17     | Labor Board Building             | School District                   | Demolished                     |
| 161 | H-14     | Pump House, 16 Wells             | School District                   | Standing                       |

| No.  | Location | Use                                       | Current Owner        | Status (1985)                      |
|------|----------|---|----------------------|------------------------------------|
| 162  | H-10     | Electric Switch House                     | Park                 | Demolished                         |
| 163  | F-5      | Dock Officer Building                     | Park                 | In Use                             |
| 164  | D-6      | Incinerator                               | Beal Cove Village    | Demolished                         |
| 165  | J-10     | 20 MM Building                            | Park                 | Demolished                         |
| 166  | J-10     | Lock & Toilet Bldg./Lock & Boiler House   | Park                 | Demolished                         |
| 167  | J-10     | Reservoir Pump House                      | Park                 | Demolished                         |
| 168  | I-16     | Paint & Oil Storage                       | Residential Property | Standing                           |
| 169  | I-13     | 3-Steel Oil Tanks                         | Park                 | <u>Proposed for Demolition</u>     |
| 170  | I-13     | 35,000 Gal. Concrete Oil Tank             | Park                 | <u>Proposed for Demolition</u>     |
| 171  | N-9      | Ammunition Handling School Equip. Shelter | Park                 | Foundations                        |
| 172  | N-9      | Quonset Underground Magazine              | Boy Scouts           | In Use                             |
| 173  | O-11     | Quonset Utility Building                  | Park                 | Demolished                         |
| 174  | O-11     | Advance Base Amm. Handling School & Huts  | Park                 | Demolished                         |
| 175  | G-15     | Dispensary                                | School District      | <u>Found.-Prop. for Demolition</u> |
| 175A | G-15     | Dispensary Garage                         | School District      | Foundation                         |
| 176  | N-9      | Quonset Underground Magazine              | Boy Scouts           | In Use                             |
| 177  | G-10     | Central Restaurant                        | Park                 | Demolished                         |
| 178  | F-9      | RR Siding & Drainage Building             | Homar, Inc.          | Standing                           |
| 179  | H-15     | Electric Truck Battery Charging Bldg.     | School District      | In Use                             |
| 180  | G-9      | Ignition Filling & Quitting House         | Park                 | Demolished                         |
| 181  | G-6      | Bomb Proof                                | Park                 | Demolished                         |



# ecology and environment engineering, p.c.

BUFFALO CORPORATE CENTER  
368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060

April 3, 1990

Massachusetts Department of Public Works  
P.O. Box 111  
Middleborough, MA 02345

Attn: Mr. Robert Smith  
District Highway Engineer  
District 7

Subject: Contract No. DACA87-89-D-0024, Delivery Order No. 1  
Contamination Evaluation at the Former Naval Ammunition Depot  
Hingham, MA

Dear Mr. Smith:

On behalf of the U.S. Army Corps of Engineers, St. Louis District, Ecology and Environment, Inc. (E & E) kindly requests your permission to gain access to Massachusetts DPW property in order to perform drilling and sampling activities associated with its investigation at the subject site. The attached site maps indicate the location of field activities to be done on DPW property at the Dock No. 2 area. Specifically, this includes drilling associated with installation of groundwater monitoring wells numbers 1 and 2, and surface soil sampling at Buildings 86 through 90 and Building 136.

This letter is provided at your request as a follow-up to our conversation earlier this week. Should you have any questions, or require additional information please contact me at 716/684-8060.

Sincerely,

ECOLOGY AND ENVIRONMENT, INC.

Gene Florentino  
Project Geologist

GF:db

Attachments (3)

L-XM123

cc: Mr. Mike Dace, USACE LMS-ED-PMB

Mr. John Hallquist USACE LMS-ED-C

Mr. Walter Bickford, MA Dept. Fisheries and Wildlife

## HINGHAM/ RT. 3A/ BACK RIVER WILDLIFE SANCTUARY Hazardous Materials/ Attractive Nuisance Issues

### Brief History of the Site

In 1988, the Massachusetts Department of Public Works and the Massachusetts Department of Fisheries, Wildlife and Environmental Law Enforcement purchased 31.8 acres of open space along Rt. 3A, Beal Street, and the Back River from the Hingham Fire Insurance Company. This land, along with the current adjacent 469-acre Bare Cove Park, 227 acres of additional adjoining municipal and private property, and 208 acres of land across the river, was part of a large U.S. Naval Ammunition Depot that was in operation from 1911 until the 1960s.

Construction of the buildings and utilities began in 1909, with the first ammunition delivered by ship in 1911. During World War I, the facilities were greatly expanded to increase storage and production of gun ammunition, mines, torpedoes, and other explosives. Between World War I and World War II, the workforce was reduced, although the government acquired an additional 3,800 acres of land (known as the Cohasset Annex) about four miles away. The depot was again in full operation during World War II, when it reached a high of 2,378 civilian employees. After WWII, the depot was used only for maintenance until 1950, when it was reactivated for the Korean Conflict. After 1953, the depot's facilities were expanded to allow for the inspection and testing of guided missiles.

The depot was abandoned in the early 1970s, when much of the property was given to the towns of Hingham and Weymouth. The 31.8 acres now owned by the MDPW and MDFWLELE (plus 12 more) were purchased from the federal government by James Salah (Hingham Fire Insurance Company) in 1974. Historical records suggest that although most of the depot's land was acquired by the Navy from 1906 to 1913, the Salah property was not secured until 1941.

### Known Facilities

In 1958, the depot contained 187 buildings, including storehouses, housing, and weapons production facilities. The site also contained 18.8 miles of railroad track, an extensive road network, and hundreds of pieces of "transportation equipment" ranging from dump trucks and locomotives to cranes and power mowers.

The depot also included two dock areas. Dock #1, located near Route 3A and the MDPW's land, was used only for unloading nonexplosive materials. Dock #2,

Copy 1-3

located farther south, was twice as large and was used for loading and unloading all materials.

Although the federal government began removing the buildings and other structures from the Town of Hingham's Bare Cove Park in 1982, most remain. On the State-owned land only one building used for storing fuses was demolished. Currently the property contains two large concrete storehouses, one identified as the "practice bomb storage area" and the other used to store mines. Also on our land are one large dilapidated metal garage and six subsurface bunkers (also called "magazines"), which were used to store black powder, primers for bombs, and other materials used to manufacture ammunition. Most of the bunkers are inaccessible because the doors were welded shut. The other buildings are easily accessible and contain debris including asbestos and asphalt shingles, broken porcelain, and pieces of metal.

The Army Corps' Defense Environmental Restoration Program (which has an office in <sup>Hingham</sup> ~~Natick~~) may be able to remove the buildings at some future date. The Open Space staff have been in contact with this government program since the acquisition was finalized. Approval takes years, however, and the likelihood of swift action is almost nil because the program's priorities are the removal of hazardous waste and ordinance (weapons and shells). We may be able to argue that we have an urgent *need* for building removal because the structures present an attractive nuisance in a public park. A push from our U.S. senators and congressmen may be helpful in this regard.

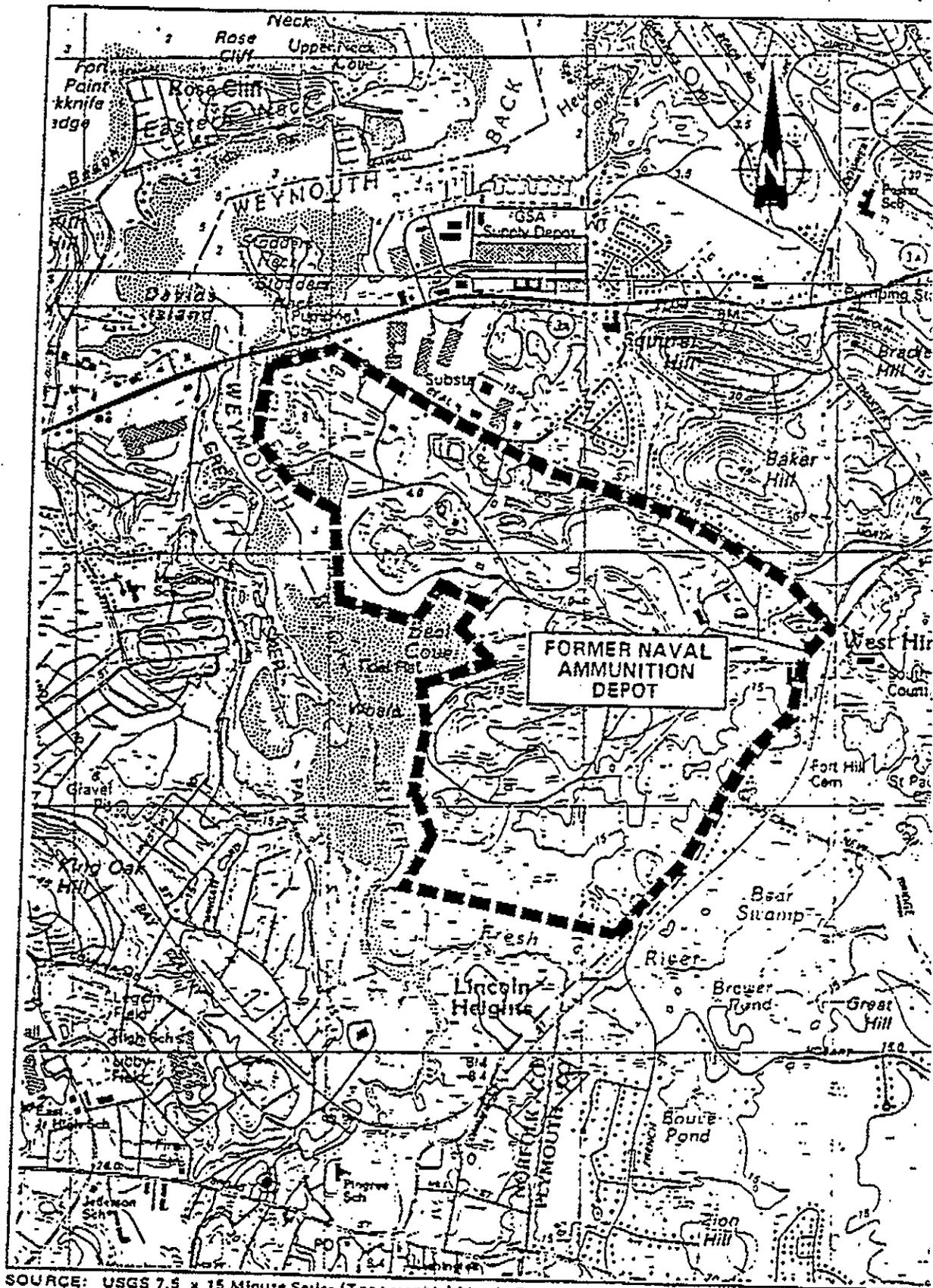
### Hazardous Waste Study

The depot land was recently chosen by the U.S. Army Corps of Engineers as one of 500 top priority site to be given a preliminary assessment for hazardous chemicals. The investigation is being conducted by a company called Ecology and Environment (E&E - Lancaster, NY) under the direction of the Army Corps' office in St. Louis, Missouri. The drilling and soil testing began on Monday, April 2, and will not be extensive, according to the consulting engineer, Gene Florentino, and the Army Corps' own scope of work for the site. The investigation of the State-owned land will consist of groundwater testing at two monitoring wells and composite soil sampling near the six bunkers.

The first test results should be available by June and the final report should be out by the end of the calendar year, according to project manager Sharon Cotner (Army Corps).

March 1990

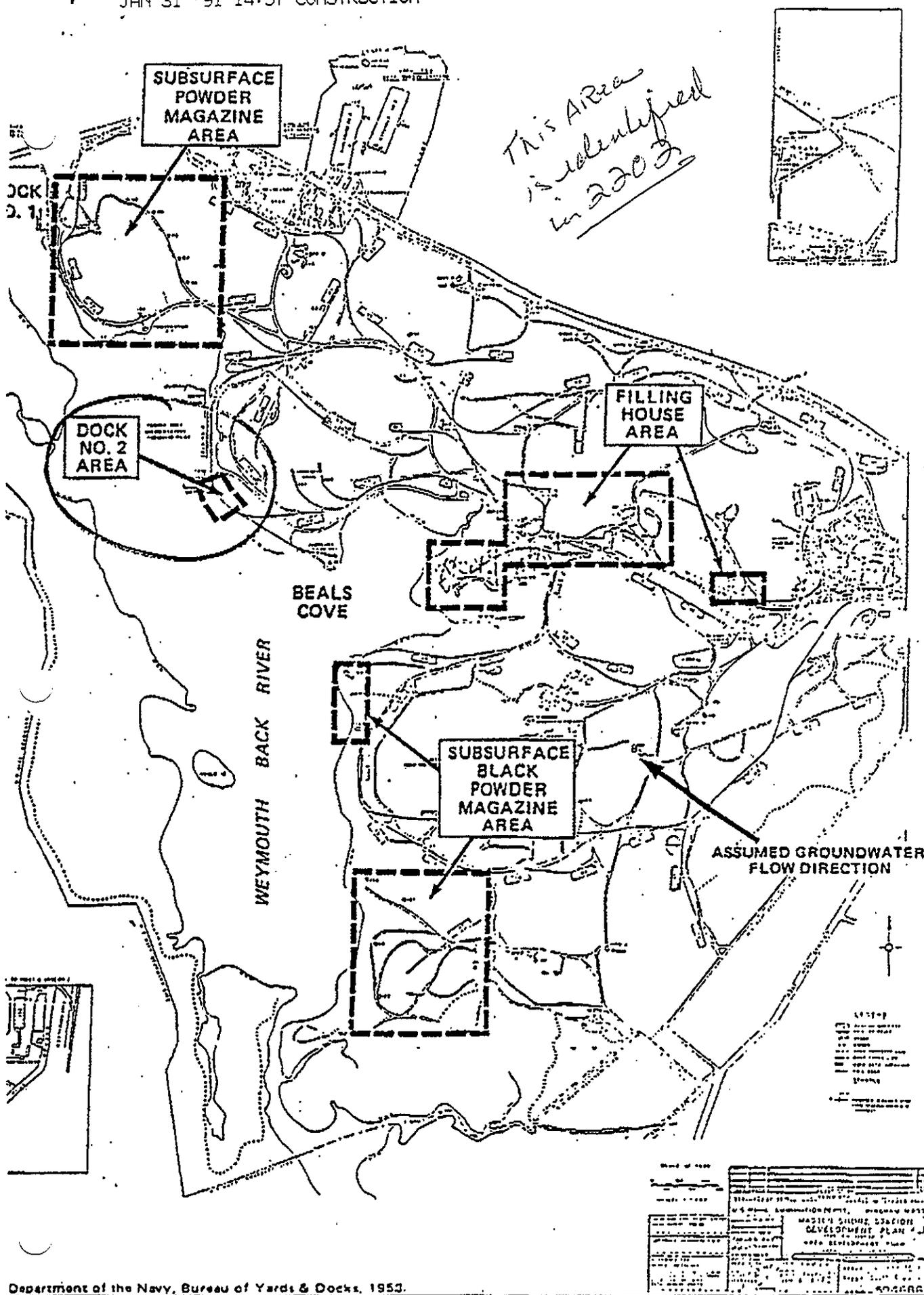
115  
NAD 2202



SOURCE: USGS 7.5 x 15 Minute Series (Topographic) Metric Quadrangles: Hull, Massachusetts, 1984, and Weymouth, Massachusetts, 1984.



Figure 1-1  
LOCATION MAP OF THE FORMER NAVAL AMMUNITION DEPOT,  
HINGHAM, MASSACHUSETTS

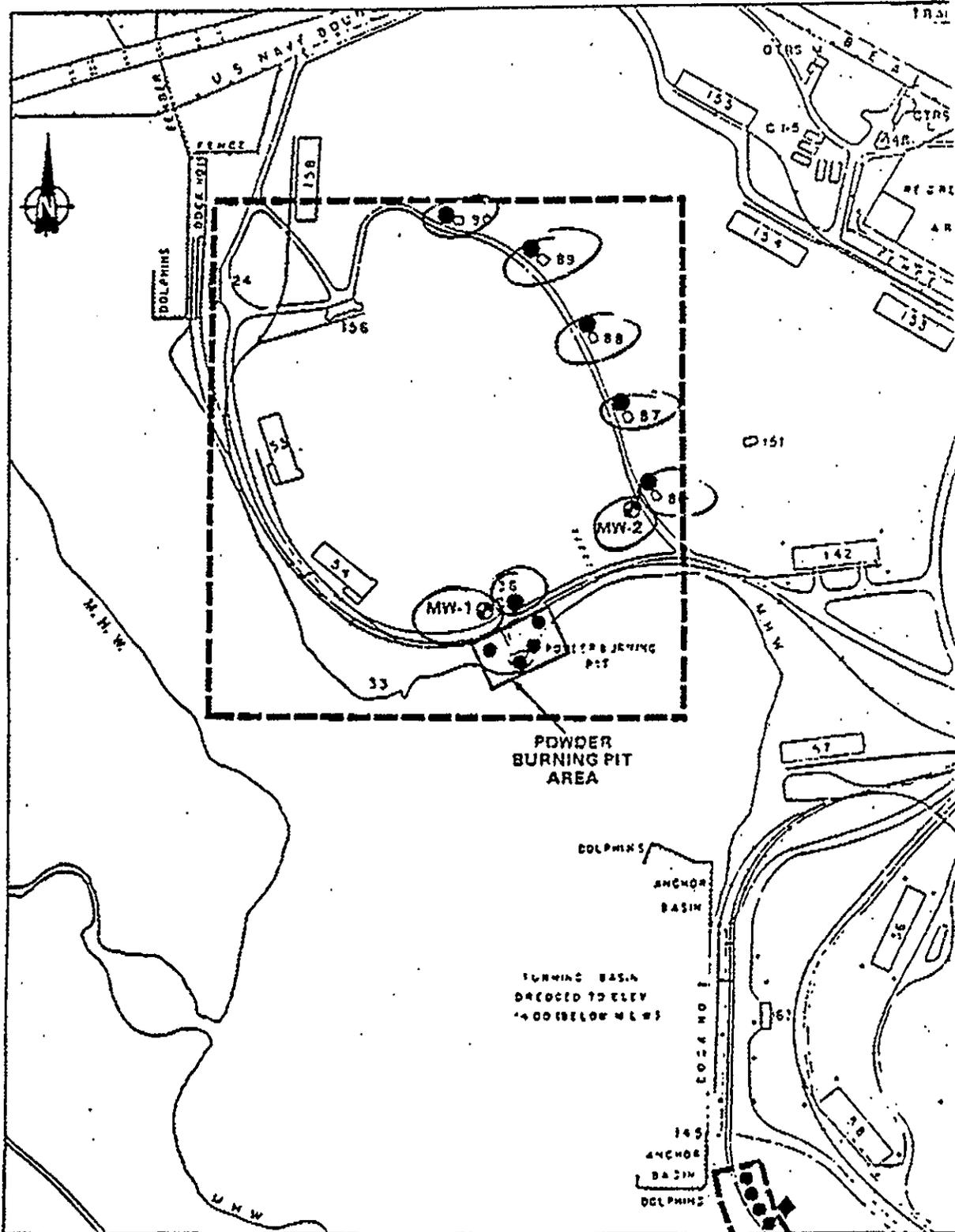


Department of the Navy, Bureau of Yards & Docks, 1953.

Figure 1-2

SITE MAP OF FORMER NAVAL AMMUNITION DEPOT, HINGHAM, MA

recycled paper



SOURCE: Department of the Navy, Bureau of Yards & Docks, 1953.

KEY:

- Near-Surface Composite Soil Sample Location
- ⊕ Monitoring Well Location
- ◆ Soil Boring Location

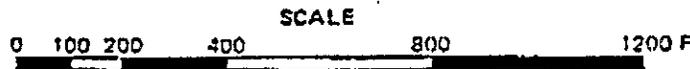


Figure 2-1  
 PROPOSED DOCK NO. 2 SOIL BORING LOCATION, AND MONITORING WELL AND NEAR-SURFACE SOIL SAMPLE LOCATIONS IN THE NORTHERN SUBSURFACE POWDER MAGAZINE AREA, FORMER NAVAL AMMUNITION DEPOT, HINGHAM, MA

located farther south, was twice as large and was used for loading and unloading all materials.

✓ Although the federal government began removing the buildings and other structures from the Town of Hingham's Bare Cove Park in 1982, most remain. On the State-owned land only one building used for storing fuses was demolished. Currently the property contains two large concrete storehouses, one identified as the "practice bomb storage area" and the other used to store mines. Also on our land are one large dilapidated metal garage and six subsurface bunkers (also called "magazines"), which were used to store black powder, primers for bombs, and other materials used to manufacture ammunition. Most of the bunkers are inaccessible because the doors were welded shut. The other buildings are easily accessible and contain debris including asbestos and asphalt shingles, broken porcelain, and pieces of metal.

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The first test results should be available by June and the final report should be out by the end of the calendar year, according to project manager Sharon Cotner (Army Corps).

March 1990

ORDNANCE AND EXPLOSIVES WASTE  
ARCHIVES SEARCH REPORTS  
for the former  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

## APPENDIX F

### LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

#### TABLE OF CONTENTS

- F-1 Letter, CONAD, 16 December 1946, Elimination of Overstorage (B-37).
- F-2 Letter, CONAD, 18 December 1946, Restowage of Bulk Smokeless Powder (B-38).
- F-3 Letter, CONAD, 19 December 1946, Ammunition Preservation and Depot Workload (B-39).
- F-4 Shipping schedule with War Gas ID kits manifested, 24 March 1943 (B-40).
- F-5 Letter, COFND, 28 March 1945 Disposal of Ammunition by Dumping in Deep Water (B-41).
- F-6 Report of September Production, September 1945 (B-43).
- F-7 Letter, CONAD, 18 September 1946, Unsafe Characteristics of of Building 135 Powder Elevator (B-44).
- F-8 Letter, 3 February 1945, Installation of Vacuum Dust Collecting System, D Sifting Building (B-45).
- F-9 Appropriation Document, November 1943-October 1944, for the procurement and installation of equipment for the loading and assembly of 20mm ammunition (B-46).
- F-10 Report of Stowage and Distribution showing Stowage of War Gas ID Kits, 2 January 1945 (B-47).
- F-11 Request for Disposition of CN-DM Grenades by dumping at sea, 6 June 1946, and showing the items were expended by dumping at sea on 10 June 1946 (B-48).
- F-12 Letter, CBUORD, 31 August 1945, Status of Rocket Motor Assembly Building (B-49).
- F-13 Monthly Stowage Report, 1 July 1945. Shows large and diverse stockage posture (B-50).

B3376

NT1-1/S78-1  
(CRW) (SK)

U. S. NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS

16 December 1946

From: The Commanding Officer  
To : The Chief of the Bureau of Ordnance (Pr6b) *NT1-1*  
Subject: Overstorage, Elimination of. *Pr6*  
Reference: (A) Bu. Ord. Ltr. NT1/S78 (Pr6b) of 8 November 1946.  
(B) NAD., Hingham Ltr. NT1-1/S78 (CRW) dtd. 26 November 1946. *[Signature]*

1. Magazines corrected during past week. None.
2. Magazines requiring correction:
  - A. Building #73 Overloaded 47,893 lbs.
  - B. Building #61 Overloaded 207,699 lbs.
  - C. Building #106 Overloaded 43,375 lbs.
  - D. Building #107 Overloaded 248,055 lbs.
3. During the past week 13,210 lbs. of explosives have been transferred from building #73.
4. Paragraph 3 of reference B states the overload in building #106 as being 120,225 lbs. This is in error. The correct figure is 43,375lbs.

*J. R. Palmer*  
J. R. Palmer  
Captain, U.S.N.

121846

REPRODUCED AT THE NATIONAL ARCHIVES

NT1-1/S78-1  
(CMC)(mg)

U. S. NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS

18 December 1946

From: The Commanding Officer  
To: The Chief of the Bureau of Ordnance

Subject: Bulk Smokeless Powder - Restowage of.

Reference: (a) NAD Hingham Ltr NT1-1/S78-1(OS)(rb) of  
11 June 1946.  
(b) BuOrd Ltr S78-1(51)(Pr6) of 30 September 1946.  
(c) BuOrd Ltr NT1/S78(Pr6b) of 8 November 1946.  
(d) O.P. 5 Paragraphs 687-692.  
(e) NAD Hingham Ltr NT1/S78(CRW) of 26 November 1946.

1. Reference (a) outlines in detail the critical stowage condition of certain groups of bulk smokeless powder, and carried recommendations to remedy the condition, and requested authorization to carry into effect the recommendations. It is desired to initiate this work as soon as possible in order to accomplish the task most economically. Reference (b) indicated that a reply to reference (a) was being prepared; this reply has not yet been received.

2. Reference (c) stated the Bureau's desire to eliminate overstockage. Overstockage is now being corrected. On 10 January 1947, Building 82 will be available for stowage of bulk smokeless powder of Groups IIIa and IVa. It is the Depot's present intention to remove the overloads from Buildings 61 and 107 and to reduce the present content of C8 (Cohasset). These amounts are to be stowed in Building 82. This action will make for more economical haulage to filling houses and fully correct overstockage conditions.

3. As this is considered a radical change in stowage, it was considered necessary to notify the Bureau of this pending action, and early approval is requested.

*J. R. Palmer*  
J. R. Palmer

cc:ComOne

*NT1-1  
S78-1(51)  
Pr6  
LS*

*not  
perm  
copy*

B-35A

NT1-1/S78-1  
(CMC)(mg)

U. S. NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS

19 December 1946

From: The Commanding Officer  
To: The Chief of the Bureau of Ordnance  
Subject: Ammunition Preservation and Depot Workload

NT1-1  
PR6  
mm

Reference: (a) BuOrd Ltr NT1-1(Pr6b) dated 15 November 1946.

1. Reference (a) discusses the condition of stowage at this Depot, and recommends removal from magazines for overhaul of about one-third of the depot stock in the fiscal year 1947, and estimates the number of employees required for this work, and requests comment.

2. The possibility of dangerous ammunition being in storage, as mentioned in reference (a), has been the subject of local conferences and has controlled much of the planning for ammunition overhaul. Tanked bag charges present the greatest concern. Cartridges of the medium calibers are of next concern. There has been some re-assurance in good tests being made of apparently bad powders.

3. The authorized ceiling for non-IVb employees for this Depot has been reduced to 400, effective 1 January 1947, which is approximately the number the Depot has been able to employ for the past four months with the present Station Maintenance Allotment and existing project orders. For the third quarter, this number would normally have to be reduced because of the increased cost of materials during the winter months. However, if a project order for the subject safety and preservation measures is issued in accordance with paragraph 4 of reference (a), the present personnel ceiling should be increased to approximately 440 non-IVb employees, and the project order should permit charging the cost of handling and transporting ammunition stowed in the Naval Magazine, Cohasset, between magazines there and filling houses in the Hingham depot for necessary work. The cost of this will be less than the labor and materials involved in maintaining work areas in the Cohasset Magazine because of the difficulties of heating. If this is done, it is considered that the desired rate of processing ammunition will be maintained. However, the completion of the first one-third will not be accomplished before December 1947.

4. The Commanding Officer appreciates the Bureau's efforts in providing funds for this work and will keep the Bureau informed as to progress on inspection and overhaul of ammunition and preservation of components.

*J. R. Palmer*  
J. R. Palmer

122746  
REPRODUCED AT THE NATIONAL ARCHIVES

DECLASSIFIED PER EXECUTIVE ORDER 12356, SECTION 3.3, NND PROJECT NUMBER NND 749081, BY 88158 DATE 9-2-94

WINGHAM, MASS.

| <u>Amount Ordered</u>   | <u>Amount Shipped</u>   |
|---|---|
| To S. O., ADVANCE BASE DEPOT, RECEIVING BARRACKS,<br>DAVISVILLE, RHODE ISLAND           |   |
| A/O 3380 )3/24/43<br>BOSO 66289)  | 2 Gas Identification Sets, Instructional<br>Ml. <span style="float: right;">7</span>  |
|   | 2 Gas Identification Sets, Detonation,<br>Mk. 1.  |
| -----   |   |
| To C. O. NAVAL CONSTRUCTION TRAINING CENTER, CAMP ENDICOTT,<br>DAVISVILLE, RHODE ISLAND |   |
| A/O 3289 )3/23/43 123000<br>BOSO 66221)   | .30 cal. Ctgs., Carbine Ml Gr. R.   |
| -----   |   |
| To INSPECTOR OF NAVAL MATERIAL, JOHNSON AUTOMATICS<br>INC., PROVIDENCE, RHODE ISLAND    |   |
| BOSO 46601 11/26/42 2000  | Ctgs., 20 m/m inert loaded Mark 3<br>projs. inert fuze body for nose<br>plug Pdr. index to be selected by<br>Depots.                      |
| -----   |   |
| To OIC, NAVAL SUPPLY STATION, NOB, NEWPORT, R.I.<br>FOR THE NAVAL TRAINING BASE.        |   |
| BOSO 15958 4/18/42 3000   | lbs., SPHERO-HEXAGONAL BLACK POWDER   |
| -----   |   |
| To OIC, AA TRAINING CTRE. PRICES NECK, R.I.   |   |
| A/O 11228 )12/23/42 144<br>BOSO 50961)  | 1.1 Dummy Drill Ctgs., Mk. 2 in<br>Mk. 1 Mod. 1 Boxes.  |
| A/O 1967 )2/15/43 2688<br>BOSO 59486)   | 40 m/m Ctgs., SPDN 3583, wt. of chg.<br>297.9 grms. I.V. 2890 fs. Target-<br>proj. Mk. 2, Tr. Mk.10, BL&T                                 |
| To C. O. AA TRAINING CENTER, PRICES NECK, R.I.  |   |
| A/O 10842 )12/9/42 10000<br>BOSO 46969)   | 40 m/m Ctgs., SPDN 3208, wt.<br>of chg. 289.6 grms. I.V. 2890<br>fs. Tr. Mk. 8 AA-proj. Mk. 1<br>Fuze Mk. 27.                             |
|   | 55000 1.1 Ctgs., SPDN 3154, wt. of<br>chg. 118.5 grms. I.V. 2700 fs.<br>Tr. Mk. Red, Pr. Mk. 19 Mod. 2,<br>Target proj. Mk. 2, Tr. Mk. 10 |

R-378-1/(LCM:AMA)

HEADQUARTERS  
COMMANDER NORTHERN GROUP  
Eastern Sea Frontier

North Station Office Building  
150 Causeway Street, Boston 14, Mass.

RESTRICTED

28 March 1945

From: Commandant, First Naval District  
To: Commanding Officer, U.S. Naval Ammunition Depot,  
Hingham, Massachusetts

Subject: Disposal of Ammunition by Dumping in Deep Water.

Ref: (a) CNG, ESF (ComOne) Restr Ltr R-F41(21507) over  
LDF-2:MMB of 3 Feb. 1945 to CESF.  
(b) CESF Restr Ltr ESF-01/QS/378-1 over Ser 7112  
of 14 Feb. 1945 to GNG-02.  
(c) CO USNA Depot, Hingham, Mass. Restr Ltr. No. NT1-1/  
378 of 27 March 1945 to ComOne.

1. By reference (a) the Commander Northern Group, Eastern Sea Frontier (Commandant, First Naval District) requested authority to dump defective and obsolete ammunition from the Boston area at a point approximately one mile in radius centered at Lat. 42°-25'-40" N. Long. 70°-34'-58" W. (The depth of water at this point is approximately 50 fms and was selected to avoid the possibility of fishermen dragging the ammunition to the surface during fishing operations).
2. By reference (b) the Commander Eastern Sea Frontier approved the area selected for dumping.
3. In view of the foregoing, the Commandant desires that the disposal of condemned ammunition originating in the Boston area be continued as designated in paragraph 1 above.

Lieutenant Ordnance  
 Ammunition  
 Planning  
 Assistant Director  
 Director  
 Chief Maintenance Division  
 Surgeon

/s/ Y. D. Herbster  
 FELIX GYGAX  
 Rear Admiral, U.S. Navy

BUREAU OF ORDNANCE

040245-0963

1/S78-1(TWS)(rb)  
 ENCLOSURE (A) - REPORT OF SEPTEMBER PRODUCTION

**FILE**

| <u>Item</u>                              | <u>Operation</u> | <u>Quantity Completed</u> | <u>Authority</u>                        |
|--|------------------|---------------------------|---|
| (1) - 20 M/M Ctgs.                       | Rework           | 400,140                   | R/O 4027-H-45                           |
| (2) - 40 M/M Ctgs.                       | Rework           | 66,316                    | R/O 4023-H-45                           |
| (3) - 3"/50 Ctgs.                        | Breakdown        | 13,032                    | R/O 4091-H-45                           |
| (4) - 3"/50 AA Ctgs.                     | Rework           | 1,867                     | R/O 4091-H-45                           |
| (5) - 5"/38 AAC Projs.<br>(Mk 35 & Mods) | Rework           | 544                       | R/O 4016-H-44                           |
| (6) - 5"/38 AAC Projs.<br>(Mk 35 & Mods) | Overhaul*        | 4,202                     | BuOrd Ltr. of<br>4 Sept. 1945.          |
| (7) - 5"/38 AAC Projs.<br>(Mk 31 & Mods) | Breakdown        | 7,936                     | R/O 4199-H-45                           |
| (8) - 5"/38 Special<br>Projs. (VT Fuze)  | Assemble         | 3,747                     | E/O 8759-STJ-45                         |
| (9) - 5"/38 Ctgs.                        | Assemble         | 5,000                     | R/O 4014-H-44                           |
| (10) - 5"/38 Ctgs.                       | Breakdown        | 7,887                     | R/O 4014-H-44                           |
| (11) - Impulse Ctgs.                     | Breakdown        | 11,530                    |   |
| (12) - 570 Rocket<br>Motors              | Assemble         | 14,265                    | L/O 5108-H-45                           |
| (13) - VT Fuzes                          | Assemble         | 573,180                   | BuOrd Conf. Ltr.<br>dated 10 Aug. 1945. |

\* No lots in sizeable quantities for service use.

100845 0185

1336

NTI-1/S78-1  
(CMC)(mg)

U. S. NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS

18 September 1946

NTI-1

From: The Commanding Officer  
To: The Chief of the Bureau of Ordnance

ea  
P. 6

Subject: Building 133 Powder Elevator, Unsafe Characteristics of

LS

1. Building 133 is designated, and is in use as, a cartridge loading house. Bulk powder is carried in standard bulk powder tanks from the loading platform to the second floor in a vertical chain conveyor which is generally referred to as an elevator. This conveyor is considered dangerous and is operated with extreme caution.
2. The conveyor consists of a steel frame set in a well and carrying a motor-driven sprocket-operated vertical chain conveyor. Wood sheathed steps carry the bulk powder tanks from the outside entrance to the second floor where it is fed to powder conduits leading to loading operation on the first floor. In addition to start-stop button control, a roller-mounted switch-operating plate at the bottom serves to govern movement of the conveyor as tanks are fed in at the bottom.
3. The powder tanks, weighing from 110 to 130 lbs., are manually pushed into conveyor and must be carefully placed on steps of conveyor. The tanks must be squared with steps all ways, and centered to clear framework. Many dangerous stoppages have occurred when tanks foul framework, jam, and stop motor by tripping overload switch. When a tank jams about half way up, personnel attempting to clear it are endangered. Tanks have fallen from near-top to bottom.
4. It is recommended that a 1000-lb. capacity platform elevator be installed in this well, safety devices to include interlocked fire doors.

*Not approved.*  
*base on string concern*  
*overhaul, repair original*  
*so it will not be destroyed.*  
*The work of this elevator*  
*is done with 1000 lb. platform*  
*and safe on assembly.*  
*JRP*

*J. R. Palmer*  
J. R. Palmer

092346

REPRODUCED AT THE NATIONAL ARCHIVES

A

NT1-1/N19

B

(P-64-4)

Al

Ad

From: [Redacted]  
To: [Redacted]

The Chief of the Bureau of Science,  
Department of Science,  
Raffles College,  
Singapore, Singapore.

Subject:

Re: Sifting Building, Department of Science,  
Raffles College, Singapore.

Re

Reference:

(a) HQ, Raffles College, Singapore,  
dated 13 Jan. 1945.

Fi

1. Under reference (a), the above mentioned certain modifications and additions to the building were made in order to maintain the building free of dirt and spilled oil.

Mn

2. In revision to the above mentioned building design are at present being made with a view to providing the building with a dirt and spillage problem in the building.

Pr

[Redacted]

PL

Copy to:

123  
Prod-4(JIA, D-sifting folder,  
Ringham folder)

Sp

Prep. 1-26-45 X 62283

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REPRODUCED AT THE NATIONAL ARCHIVES

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8-1-1-111

DECLASSIFIED PER EXECUTIVE ORDER 12356, SECTION 3.3, NND PROJECT NUMBER OND917625, BY R3/KAM, DATE 9-2-94

U.S. NAVAL AMMUNITION DEPOT  
BUREAU OF ORDNANCE

(47)(HSL)  
I-8/S/T-11A

N. Ord. No. 1000  
(Sept. 1942)

Sheet 1 of 5

Date January 2, 1945

From: Commanding Officer  
N.A.D. Hingham, Mass.

To: The Chief of the Bureau of Ordnance  
Navy Department, Washington, D.C.

Subject: Report of Stowage, Distribution of, and available space for  
Ammunition, Explosives, and Inert Ordnance Material for the  
month ending December 31, 1944.

| (1)<br>BLDG.<br>No. | (2)<br>TYPE<br>AND SIZE | (3)<br>STOWAGE ASSIGNMENT &<br>APPROVED CAPACITY             | (4)<br>KIND OF<br>MATERIAL STOWED                                | (5)<br>AVAILABLE STOW-<br>AGE CAPACITY | (6)<br>REMARKS   |
|---------------------|-------------------------|--|--|--|--|
| 73                  | 200x50                  | 143,000 lbs. H.E. in<br>Projs. 7500 sq. ft.                  | 8" AP, 8" HC, 12"<br>AP, 14" AP, 16"<br>AP Exp. "D"              | 60%                                    | /  |
| 74                  | 200x50                  | 143,000 lbs. H.E. in<br>Projs.                               | 5"/38 AAC, 5"/38 Com<br>4"/50 HC Exp. D Load                     | 30%                                    | /  |
| 75                  | 200x50                  | 143,000 lbs. H.E. in<br>Projs.                               | 3" AA C-TNT Load.<br>5"/51 Com. TNT-EP<br>4"/50 Com. TNT-EP      | 25%                                    | /  |
| 77                  | 200x50                  | 143,000 lbs. Filler<br>in Projs. 7500 Sq. Ft.<br>Floor Space | 3", 4", 5", 6" Ill.  | 60% Sq. Ft.                            | /  |
| 78                  | 200x50                  | 143,000 lbs. H.E. in<br>Projs.                               | 5"/38 AAC Exp. "D"<br>Loaded                                     | NONE                                   | All Projs. in<br>Bldg. 78 are<br>Mk. 31 & mods<br>for breakdown. |
| 79                  | 200x50                  | 143,000 lbs. H.E. in<br>Projs. 7500 Sq. Ft.                  | 6" Com, 6" AP,<br>6" HC, 13851 HC,<br>5"/38 AAC Exp. "D"<br>load | 25%                                    | /  |
| 137                 | 200x50                  | 143,000 lbs. H.E. in<br>Projs.                               | 5"/38 AAC, 5"/51 HC<br>4" HC Exp. "D" load                       | 15%                                    | /  |



DECLASSIFIED PER EXECUTIVE ORDER 12356, SECTION 3.3, NND PROJECT NUMBER NND917625, BY R3/KUM, DATE 9-2-94

N.A.D. Hingham

Report of Stowage Space, Dec. 31, 1944

Sheet 4 of 5

| Bldg. No.                             | Type of Magazine      | Approved Capacity              | Present Contents   | Capacity Available     |
|---------------------------------------|-----------------------|--------------------------------|--|------------------------|
| <u>PYROTECHNICS and CHEMICAL AMM.</u> |                       |                                |  |                        |
| 55                                    | 200x50x15             | Pyrotechnics<br>112,500 Cu.Ft. | Pyrotechnics   | Overload               |
| 139                                   | 28x30 Igloo           | Chem. Amm.<br>2000 Cu.Ft.      | (CN Spray, CN Capsules<br>Gas. Ident. Sets)                                    | 50%                    |
| <u>HIGH EXPLOSIVES</u>                |                       |                                |  |                        |
| 134                                   | 28x80 Igloo           | 143,000 lbs. HE                | Demolition Blocks<br>Depth Charges   | 75%                    |
| 135                                   | 28x80 Igloo           | 143,000 lbs. HE                | Bulk "D" TNT Tetryl<br>CG Boosters, Warhead Boost.                             | 10%                    |
| <u>BLACK POWDER</u>                   |                       |                                |  |                        |
| 126                                   | 19x15x9<br>Sub. Surf. | 20,000 lbs. BP<br>1200 Cu.Ft.  | 5"/51 Ign. Catapult Ign.<br>V-5 Powder Rings, Illum.<br>Projs. Expellant Chgs. | Empty under<br>repair. |
| 127                                   | Do                    | 30,000 lbs. BP<br>1200 Cu.Ft.  | Black Rifle, Cannon<br>Shell and Powder  | None Phys.             |
| 128                                   | Do                    | 20,000 lbs. BP<br>1200 Cu.Ft.  | 6", 8", 14" and 16"<br>Ignitions   | None Cu.Ft.            |
| 129                                   | Do                    | 20,000 lbs. BP<br>1200 Cu.Ft.  | Black Spheroc-hex and<br>Sodium Nitrate Powder                                 | None Phys.             |
| 130                                   | Do                    | 15,000 lbs. BP<br>1200 Cu.Ft.  | SDCP Impulse Chgs.<br>Torpedo Impulse Charges                                  | None Phys.             |
| <u>DETONATORS</u>                     |                       |                                |  |                        |
| 33                                    | 11x8x6<br>Sub. Surf.  | Detonators<br>300 Cu.Ft.       | Detonators Br. Prop.   | 50%                    |
| 136                                   | 15x10x8<br>Sub. Surf. | Detonators<br>800 Cu.Ft.       | Detonators, Blasting Caps  | None                   |

DECLASSIFIED PER EXECUTIVE ORDER 12356, SECTION 3.3, NND PROJECT NUMBER WWD917625, BY RB/KUM, DATE 9-2-94

N.A.D. Hingham

Report of Stowage Space, Dec. 31, 1944 Sheet 5 of 5

| Bldg. No.                | Type of Magazine                    | Approved Capacity      | Present Contents                      | Capacity Available |
|--------------------------|-------------------------------------|------------------------|---------------------------------------|--------------------|
| <u>FUZES</u>             |                                     |                        |                                       |                    |
| 22                       | 90x50x21                            | 50,000 Cu.Ft.<br>Fuzes | Fuzes-Det.&Time<br>Aux.Det. - Tracers | None               |
| 140                      | 25x60 Igloo                         | 5000 Cu.Ft.            | Fuzes & Tracers from B/D              | None               |
| 141                      | 25x50 Igloo                         | 5000 Cu.Ft.<br>Fuzes   | Fuzes & Aux. Dets. from B/D           | None               |
| <u>PRIMERS</u>           |                                     |                        |                                       |                    |
| 86                       | 20x20x9<br>Sub. Surf.               | 3000 Cu.Ft.<br>Primers | Primers Perc. & Comb.                 | 80%                |
| 87                       | Do                                  | Do                     | Do                                    | 40%                |
| 88                       | Do                                  | Do                     | Do                                    | None               |
| 89                       | Do                                  | Do                     | Do                                    | 20%                |
| 90                       | Do                                  | Do                     | Do                                    | 50%                |
| <u>SMOKE MIXTURE</u>     |                                     |                        |                                       |                    |
| 156                      | 24x68x12<br>Smoke St. Hse           | 528-55 Gal Dr          | FS Smoke Mixture                      | 150 Drs.           |
| <u>INERT STOREHOUSES</u> |                                     |                        |                                       |                    |
| 28<br>STHSES             | 180x50x15<br>200x50x15<br>200x60x15 | 3,300,000 Cu.Ft.       | Inert Components                      | 15%                |
| <u>RAW SILK</u>          |                                     |                        |                                       |                    |

(05)(10)  
NAV. S. AND A. FORM 154  
Revised May 1945

**SURVEY REQUEST, REPORT, AND EXPENDITURE**

|  |                       |                          |
|--|-----------------------|--------------------------|
| SHIP OR ACTIVITY<br><b>U.S.N.A.S., Kingston, Mass.</b> | DATE<br><b>4/4/46</b> | NO.<br><b>242-242-46</b> |
|--|-----------------------|--------------------------|

REQUEST (To be prepared by supply officer, or head of Department)  
It is requested that the items listed below be surveyed in accordance with Arts. 1905-1918, N. R.

|                                |                                 |                               |
|--------------------------------|---------------------------------|-------------------------------|
| REASON<br><b>Unserviceable</b> | APPROPRIATION<br><b>1700702</b> | SIGNED<br><b>P.N. Dunning</b> |
| ACCOUNT<br><b>9000</b>         | RANK<br><b>Lt. Comdr. USN</b>   |                               |

| ITEM     | QUANTITY   | ARTICLE   | IDENTIFYING MARKS, ETC. | DATE AND FROM WHOM RECEIVED | VALUES AT WHICH CARRIED |
|----------|------------|---|-------------------------|-----------------------------|-------------------------|
| <b>1</b> | <b>100</b> | <b>Grounds, Hand, Irritant, (CS-M), M5 with fuse M200, M200A1, M200A2</b> |                         |                             | <b>\$257.50</b>         |

REPORT (To be prepared by head of Department, or by surveying officer(s) if so directed below)

| ITEM     | CONDITION, CAUSE, RESPONSIBILITY, AND RECOMMENDATION   | APPRAISED VALUE |
|----------|--|-----------------|
| <b>1</b> | <b>Condition: Unserviceable</b>  | <b>257.50</b>   |
| <b>1</b> | <b>Cause: Unserviceable due to fuse restriction.</b>   |                 |
| <b>1</b> | <b>Responsibility: None</b>  |                 |
| <b>1</b> | <b>Recommendation: Dump overboard in deep water at least 1,000 fathoms deep and 10 miles from shore. This procedure is in accordance with Nav. Order. 211-1 (Rev. 1) of 3 May 1945. Copy of survey only to be forwarded to the Bureau of Ordnance.</b> |                 |

The above items have been carefully surveyed in accordance with Sec. 3, Chap. 49, N. R., and report is made thereon as indicated above.

*Comdr. Shriver*  
Comdr. USN

DATE **6 June 1946**

(Signed by surveying officer or board, or by head of Department)

**ACTION OF COMMANDANT OR COMMANDING OFFICER**

|  |                       |  |
|--|-----------------------|--|
| Expend without formal survey, in accordance with Arts. 1909, 1914, N. R. | DATE<br><b>4/4/46</b> | COMMANDANT OR COMMANDING OFFICER<br><b>A.M. HALSEY, Captain U.S.N.</b> |
|--|-----------------------|--|

or Formal survey is required and

U. S. N.

U. S. N. (is) (are) hereby designated as surveying officer(s) for the above articles or material, in accordance with Art. 1910, N. R.

(Date)

(Commandant or Commanding officer)

**ACTION BY REVIEWING OFFICER AFTER FORMAL SURVEY**

|                |                   |      |        |
|----------------|-------------------|------|--------|
| ITEMS APPROVED | ITEMS DISAPPROVED | DATE | SIGNED |
|----------------|-------------------|------|--------|

|  |      |
|--|------|
| NAME OF BUREAU TO WHICH FORWARDED FOR ACTION | DATE |
|--|------|

The above articles have been expended from the records at

**FINAL EXPENDITURE**

|                                   |   |
|-----------------------------------|---|
| APPROPRIATION<br><b>17 x 1905</b> | CHARGE TO EXPENDITURE ACCOUNT<br><b>90001</b> |
|-----------------------------------|---|

\$ **257.50**  
TRANSFERRED TO

**F-11**

SPACE FOR BUREAU APPROVAL IF NECESSARY

RECEIVED **June 10 46** 19 the above-mentioned articles

**S.A. HASCAPFRAY, LT. COMDR (SG)**

REPRODUCED AT THE NATIONAL ARCHIVES

B.1469

31 AUG 1945

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NTI-1/878  
(Pr6-1)

**To:** The Chief of the Bureau of Ordnance  
The Accounting Officer  
Naval Ammunition Depot  
Hingham, Massachusetts

**Subject:** Rocket Motor Assembly Plant and Associated Facilities - Status of

**Reference:** (a) Subord FAX 151940

1. In view of presently planned work and requirements for rocket ammunition, it is not intended to use the motor assembly building and associated facilities at the Ammunition Depot, Hingham for the assembly and receipt of rocket ammunition.

2. Therefore, after the completion of loading as outlined in reference (a), it is requested that these facilities be laid up.

U. S. GOVERNMENT  
PRINTING OFFICE  
WASHINGTON, D. C.

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ENCLOSURE (A)

NPI-1/S78-1  
(TRS)(cbc)

# Monthly Stowage Report

U. S. Naval Ammunition Depot, Hingham, Mass.

Report of Magazine Stowages as of 1 July 1945

| Building Number         | Assignment Size | Present Contents                                   | Approved Capacity               | % Space Available |
|-------------------------|-----------------|--|---------------------------------|-------------------|
| 73                      | 200x50          | 8"AP, 8" HC, 12"AP, 14"AP, Exp. "D", 5/38 AAC      | 143,000 lbs. H.E. in Projs.     | 40%               |
| 79                      | 200x50          | 6"Com. 6"AP, 6" HC, 138 MM HC, 5"/38 AAC, Exp. "D" | 143,000 lbs. H.E. in Projs.     | 30%               |
| 137                     | 200x50          | 5"/38 AAC, 5"/51 HC, Exp. "D" load. Boxes          | 143,000 lbs. H.E. in Projs.     | 20%               |
| 74                      | 200x50          | 5"/38 AAC, 5"/38 Com, 4"/50 HC Exp. "D"            | 143,000 lbs. H.E. in Projs.     | 20%               |
| 78                      | 200x50          | 5"/38 AAC Projs. Mk. 31 and Mods. Exp. "D"         | 143,000 lbs. H.E. in Projs.     | None              |
| 75                      | 200x50          | 3"AA, 5"/51 Com TNT-BP, 4"/50 Com. TNT-BP          | 143,000 lbs. H.E. in Projs.     | 30%               |
| 77                      | 200x50          | 3", 4", 5", 6" Ill.                                | 143,000 lbs. Filler in Projs.   | 60%               |
| 57                      | 200x50          | Target Projs. - All calibers                       | 7500 Sq. Ft.                    | 30%               |
| <u>FIXED AMMUNITION</u> |                 |  |                                 |                   |
| 21                      | 90x50x10        | 20 MM AA   | 500,000 lbs. SP in Fixed Amm.   | 40%               |
| 50                      | 204x50x15       | 20 MM AA   | 500,000 lbs. SP in Fixed Amm.   | 30%               |
| 49                      | 204x50x15       | 3"/50 Ctgs. in Boxes                               | 500,000 lbs. SP in Fixed Amm.   | 30%               |
| 76                      | 200x50x15       | 40 MM  | 143,000 lbs. Cast TNT in Projs. | 50%               |
| 58                      | 200x50x15       | 1, 3, & 6 Pdr., 3"/23 Ctgs., 3"/50 Tanks           | 500,000 lbs. SP in Fixed Amm.   | 30%               |
| 59                      | 200x50x15       | 4"/50, 5"/25 Ctgs.                                 | <b>F-13</b>                     | 30%               |

REPRODUCED AT THE NATIONAL ARCHIVES

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NT1-1/S78-1  
(TRS)(cbc)

Page 2

Storage Report as of 1 July 1945

| Building Number | Assignment Size | Present Contents   | Approved Capacity                | % Space Available |
|-----------------|-----------------|--|----------------------------------|-------------------|
| 56              | 200x50x15       | 40 MM  | 500,000 lbs.<br>SP in Fixed Amm. | 30%               |
| 142             | 200x50x15       | <u>SEMI-FIXED CTGS.</u><br>5"/38 Ctgs.   | 500,000 lbs.<br>SP in Ctgs.      | 30%               |
| 66              | 200x50x15       | 6"/47 Crgs., 5"/38 Ctgs.<br>5"/51 Catapult Ctgs.   | 500,000 lbs.<br>SP in Ctgs.      | None              |
| 51              | 200x50x15       | 5"/51 Catapult Ctgs.<br>5"/38 Ctgs. Fleet Returns  | 500,000 lbs.<br>SP in Ctgs.      | None              |
| 14              | 200x50x15       | <u>BAG CHARGES</u><br>8", 14", 16", Bag Chgs.  | 500,000 lbs.<br>SP in Chgs.      | 50%               |
| 63              | 200x50x15       | 5", 6", Bag Chgs.  | 500,000 lbs.<br>SP in Chgs.      | 30%               |
| 15              | 90x50x21        | <u>BULK SMOKELESS POWDER</u><br>Group IA, IIA<br>Segregation (Temporary)<br>Pyralin Wads | 500,000 lbs.<br>SP               | 50%               |
| 23              | 90x50x21        | Group IB,<br>IIB, IIIB   | 500,000 lbs.<br>SP               | 60%               |
| 61              | 199x50x18       | Group IIIA, IVA  | 500,000 lbs.<br>SP               | 10%               |
| 104             | 199x50x18       | Group V  | 1,850,000                        | 75%               |
| 105             | 199x50x18       | Group VI, VII, VIII  | 1,000,000                        | 60%               |
| 106             | 199x50x18       | Group IVB  | 500,000                          | 60%               |
| 107             | 199x50x18       | Group IVB  | 500,000                          | 50%               |
| 65              | 200x50x15       | <u>SMALL ARMS AMMUNITION</u><br>.50 cal. Small Arms<br>Starter Ctgs.                     | 112,500 Cu.Ft.<br>Sm. Arms       | 45%               |

REPRODUCED AT THE NATIONAL ARCHIVES

NTI-1/S78-1  
(TRS)(cbc)

Page 3

Storage Report as of 1 July 1945

| Building Number | Assignment Size      | Present Contents   | Approved Capacity              | % Space Available |
|-----------------|----------------------|--|--------------------------------|-------------------|
| 68              | 200x50x15            | .22, .30, .38, .45, Cal. Ctgs.<br>12-Gauge                           | 112,500 Cu.Ft.<br>Sm. Arms     | 50%               |
| 82              | 200x50x15            | .22, .30, .45, .455, .38<br>.50 Cal. British Property                | 112,500 Cu.Ft.                 | 10%               |
| 55              | 200x50x15            | <u>PYROTECHNIC AND CHEMICAL AMM.</u><br>Pyrotechnics                 | 500,000 lbs.<br>Gross pyros.   | 10%               |
| 139             | 28x30 Igloo          | Chemical Ammunition  | 2,000 Cu. Ft.<br>Chem. Amm.    | 80%               |
|                 |                      | <u>HIGH EXPLOSIVES</u>   |                                |                   |
| 134             | 28x80 Igloo          | Demolition Blocks & Depth Chgs.<br>D.C. Boosters and Tetryl Boosters | 143,000 lbs.                   | 10%               |
| 135             | 28x80 Igloo          | Explosive "D"  | 143,000 lbs.                   | 30%               |
|                 |                      | <u>BLACK POWDER</u>  |                                |                   |
| 126             | 19x15x9<br>Sub Surf. | Navy Shell and Black Cannon  | 20,000 lbs.<br>BP, 1200 Cu.Ft. | 10%               |
| 127             | 19x15x9<br>Sub Surf. | Ignition ends, Base Grain<br>Chgs.                                   | 30,000 lbs.<br>BP, 1200 Cu.Ft. | 15%               |
| 128             | 19x5x9<br>Sub Surf.  | Sphero Hex, Sodium Nitrate<br>Powder                                 | 20,000 lbs.<br>BP, 1200 Cu.Ft. | 20%               |
| 129             | 19x15x9<br>Sub Surf  | Impulse Chgs.  | 20,000 lbs.<br>BP, 1200 Cu.Ft. | 10%               |
| 130             | 19x15x9<br>Sub Surf  | Impulse Chgs., Fleet Returns   | 15,000 lbs.<br>BP, 1200 Cu.Ft. | 15%               |
|                 |                      | <u>DETONATORS</u>  |                                |                   |
| 33              | 11x8x6<br>Sub Surf   | Detonators - British<br>Property                                     | 300 Cu. Ft.<br>Detonators      | 50%               |
| 136             | 15x10x8<br>Sub Surf  | Detonators,<br>Blasting Caps   | 800 Cu. Ft.<br>Detonators      | 15%               |
|                 |                      | <u>FUZES</u>   |                                |                   |
| 22              | 90x50x21             | Fuzes, Aux. dets., & Tracers   | 50,000<br>Cu. Ft. Fuzes        | None              |

REPRODUCED AT THE NATIONAL ARCHIVES

F-13

NTL-1/S78-1  
(TRS)(cbc)

Page 4

Stowage Report as of 1 July 1945

| Building Number          | Assignment Size                     | Present Contents  | Approved Capacity        | % Space Available |
|--------------------------|-------------------------------------|---|--------------------------|-------------------|
| 140                      | 25x60 Igloo                         | Fuzes and Tracer from BD  | 5,000 Cu. Ft.            | None              |
| 141                      | 25x50 Igloo                         | Fuzes and Aux. Dets. from BD  | 5,000 Cu. Ft.            | None              |
| <u>PRIMERS</u>           |                                     |   |                          |                   |
| 86                       | 20x20x9 Sub Surf                    | Primers perc. & combination   | 3,000 Cu. Ft. Primers    | 95%               |
| 87                       | 20x20x9 Sub Surf                    | Primers perc. & combination   | 3,000 Cu. Ft. Primers    | 20%               |
| 88                       | 20x20x9 Sub Surf                    | Primers perc. & combination   | 3,000 Cu. Ft. Primers    | 30%               |
| 89                       | 20x20x9 Sub Surf                    | Primers perc. & combination   | 3,000 Cu. Ft. Primers    | 40%               |
| 90                       | 20x20x9 Sub Surf                    | Primers perc. & combination   | 3,000 Cu. Ft. Primers    | 30%               |
| <u>SMOKE MIXTURE</u>     |                                     |   |                          |                   |
| 156                      | 24x68x12 Smoke St. Hse              | FS Smoke Mixture  | 528-55 gal. Drs.         | 161%              |
| <u>GENERAL ORDNANCE</u>  |                                     |   |                          |                   |
| 96                       | 200x50                              | Gun Mounts, D.C. Pistols and Extenders, Ord. Mach., Strapping                     | 150,000 Cu. Ft.          | 10%               |
| <u>INERT STOREHOUSES</u> |                                     |   |                          |                   |
| 29 St. Hses.             | 180x50x15<br>200x50x15<br>204x50x15 | Inert Ordnance Components   | 415,000 Cu. Ft.          | 10%               |
| <u>RAW SILK</u>          |                                     |   |                          |                   |
| 2 St. Hses.              | 22x50x10                            | Raw Silk  | 22,000 Cu. Ft.           | 30%               |
| <u>S. P. MAGAZINES</u>   |                                     |   |                          |                   |
| 1 LC 1<br>C-1            | SP/Proj.<br>50" x 100"              | 1.1 Tgt. and H.E.<br>20-MM & 40-MM  | 143,000# HE<br>30,000 cf | 20%<br>Phy.       |
| 1 LC 2<br>C-2            | SP/Proj.<br>50" x 100"              | Semi-fixed Cartridges, 4", 4.7<br>2" Tail Propelling Rockets<br>12 pdr. (British) | 143,000# HE<br>30,000 cf | 30%<br>Phy.       |
| 1 LC 3<br>C-3            | SP/Proj.<br>50" x 100"              | 3"/50 AP & Target   | 143,000# HE<br>30,000 cf | 50%<br>Phy.       |

REPRODUCED AT THE NATIONAL ARCHIVES

NT1-1/S78-1  
(TRS)(cbc)

Page 5

Storage Report as of 1 July 1945

| Building Number | Assignment Size        | Present Contents                                       | Approved Capacity        | % Space Available |
|-----------------|------------------------|--|--------------------------|-------------------|
| 1 LC 4<br>C-4   | SP/Proj.<br>50' x 100' | 20-MM, 37-MM, 40-MM, 60-MM & 81-MM                     | 143,000# HE<br>30,000 cf | 40%<br>Phy.       |
| 1 LC 5<br>C-5   | SP/Proj.<br>50' x 100' | 5" Rocket Motors, Mk. 3-2<br>3.25 Rocket Motors, Mk. 7 | 143,000# HE<br>30,000 cf | None<br>Phy.      |
| 1 LC 6<br>C-6   | SP/Proj.<br>50' x 100' | Mk. 45 Fuses without Aux. Dets.                        | 143,000# HE<br>30,000 cf | 10%<br>Phy.       |
| 1 LC 7<br>C-7   | SP/Proj.<br>50' x 100' | Mk. 45 Fuses without Aux. Dets.                        | 143,000# HE<br>30,000 cf | 15%<br>Phy.       |
| 1 LC 8<br>C-8   | SP/Proj.<br>50' x 100' | Smokeless Powder                                       | 143,000# HE<br>30,000 cf | None<br>Phy.      |
| 1 LC 9<br>C-9   | SP/Proj.<br>50' x 100' | Bag Charges: 15", 8", 6", 4"<br>Bulk Cordite (British) | 143,000# HE<br>30,000 cf | 70%<br>Phy.       |
| 1 LC 10<br>C-10 | SP/Proj.<br>50' x 100' | 5" Rocket Motors, Mk. 2-3                              | 143,000# HE<br>30,000 cf | None<br>Phy.      |
| 1 LC 12<br>C-12 | SP/Proj.<br>50' x 100' | 5"/38 Special  | 143,000# HE<br>30,000 cf | None<br>Phy.      |
| 2 PT 1<br>F-1   | SP/Proj.<br>50' x 100' | 3" & 4" Q.F. (Fixed) Br.                               | 143,000# HE<br>30,000 cf | 30%<br>Phy.       |
| 2 PT 2<br>F-2   | SP/Proj.<br>50' x 100' | Empty  | 143,000# HE<br>30,000 cf | 100%<br>Phy.      |
| 2 PT 3<br>F-3   | SP/Proj.<br>50' x 100' | 4" Q.F. (Fixed) Br.<br>2 pdrs.                         | 143,000# HE<br>30,000 cf | 75%<br>Phy.       |
| 2 PT 4<br>F-4   | SP/Proj.<br>50' x 100' | Ballistite   | 143,000# HE<br>30,000 cf | 15%<br>Phy.       |
| 2 PT 5<br>F-5   | SP/Proj.<br>50' x 100' | 2.25 Rocket Motors, Mk. 11 & 13                        | 143,000# HE<br>30,000 cf | 25%<br>Phy.       |
| 2 PT 6<br>F-6   | SP/Proj.<br>50' x 100' | Bulk Powder, 3"/50                                     | 143,000# HE<br>30,000 cf | 70%<br>Phy.       |
| 2 PT 7<br>F-7   | SP/Proj.<br>50' x 100' | 5"/25 Ctgs. (Fixed)                                    | 143,000# HE<br>30,000 cf | 20%<br>Phy.       |
| 2 PT 8<br>F-8   | SP/Proj.<br>50' x 100' | 20-MM & 40-MM Br.<br>2 pdr.                            | 143,000# HE<br>30,000 cf | 40%<br>Phy.       |
| 2 PT 9<br>F-9   | SP/Proj.<br>50' x 100' | 5"/38 Semi-fixed Cart.                                 | 143,000# HE<br>30,000 cf | 75%<br>Phy.       |

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| Building Number  | Assignment Size        | Present Contents   | Approved Capacity        | % Space Available |
|------------------|------------------------|--|--------------------------|-------------------|
| 2 PT 10<br>P-10  | SP/Proj.<br>50' x 100' | 6" Projectiles Br.<br>12 pdr. (Boxed)  | 143,000# HE<br>30,000 cf | 10%<br>Phy.       |
| 3 FCX 1<br>F-1   | Fuses<br>25' x 30'     | Primer Det. Non-Delay, .01 & .025<br>Sec. Delay<br>M-103 Grenade Fuses                                     | 4500 cf                  | 50%<br>Phy.       |
| 3 FCX 2<br>F-2   | Fuses<br>25' x 30'     | Nose Fuses: Mk. 219-1, AN-Mk<br>219-2 Tail Fuses: M100A1<br>Hydrostatic AN-M-224-1, 224-2                  | 4500 cf                  | 50%<br>Phy.       |
| 3 FCX 3<br>F-3   | Fuses<br>25' x 30'     | Fuses Mk-137-1, Aux. Boosters<br>Mk 1 & 4<br>Hydrostatic AN-M-224-1, 224-2,<br>234-1, 234-2                | 4500 cf                  | None<br>Phy.      |
| 3 FCX 4<br>F-4   | Fuses<br>25' x 30'     | Tail Fuses: Mk. 229-1, AN-M-230-3<br>Hydrostatic AN-M-234, 234-2, 234-3<br>Det. Fuses: Mk. 148, 149, 155-0 | 4500 cf                  | 25%<br>Phy.       |
| 3 FCX 5<br>F-5   | Fuses<br>25' x 30'     | Bomb Fuses: M100A2, M101A2,<br>M102A2, (228-1 Mk.)<br>Hydrostatic AN-Mk-230-3, 230-4,<br>230-6             | 4500 cf                  | None<br>Phy.      |
| 3 FCX 6<br>F-6   | Fuses<br>25' x 30'     | Bomb Fuses: Mk. 219, AN-M-219-2<br>AN-M-219-3, AN-M-219-4, M-110   | 4500 cf                  | 10%<br>Phy.       |
| 3 FCX 7<br>F-7   | Fuses<br>25' x 30'     | Bomb Fuses: Mk. 219-1, AN-M-219-3,<br>AN-M-219-4, Nose Fuses: M103A1                                       | 4500 cf                  | 25%<br>Phy.       |
| 3 FCX 8<br>F-8   | Fuses<br>25' x 30'     | Bomb Fuses: M100A1, M102A2,<br>Mk-221-4, Mk-221-3, Mk-223-4<br>Mk-223-3                                    | 4500 cf                  | None<br>Phy.      |
| 3 FCX 9<br>F-9   | Fuses<br>25' x 30'     | Bomb Fuses: Mk. 228-1, 228-1<br>Fuses: Mk. 136-3, 136-4, 136-5   | 4500 cf                  | 10%<br>Phy.       |
| 3 FCX 10<br>F-10 | Fuses<br>25' x 30'     | Bomb Fuses: Mk. AN-M100A2, 101A2<br>Non-Delay, M115, M116, M117<br>Mk. 131-3, 131-6, 136-10                | 4500 cf                  | None<br>Phy.      |
| 3 FCX 11<br>F-11 | Fuses<br>25' x 30'     | Proj. Time Fuses (British)   | 4500 cf                  | None<br>Phy.      |
| 3 FCX 12<br>F-12 | Fuses<br>25' x 30'     | Detonating Fuses<br>Mk. 230 Fuses (British)  | 4500 cf                  | 25%<br>Phy.       |

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| Building Number | Assignment Size   | Present Contents   | Approved Capacity        | % Space Available |
|-----------------|-------------------|--|--------------------------|-------------------|
| 4 AT 1<br>E-1   | H.E.<br>25' x 80' | Pyrotechnics (Br.)   | 250,000# HE<br>12,000 cf | 30%<br>Phy.       |
| 4 AT 2<br>E-2   | H.E.<br>25' x 80' | AAD ROCKETS (Br.)<br>Types L & B Apparatus                 | 250,000# HE<br>12,000 cf | None<br>Phy.      |
| 4 AT 3<br>E-3   | H.E.<br>25' x 80' | Misc. Pyrotechnics   | 250,000# HE<br>12,000 cf | 30%<br>Phy.       |
| 4 AT 4<br>E-4   | H.E.<br>25' x 80' | Depth Charges (Minol) (Br.)                                | 250,000# HE<br>12,000 cf | 40%<br>Exp.       |
| 4 AT 5<br>E-5   | H.E.<br>25' x 80' | Pyrotechnics AAD(Type L) (Br.)                             | 250,000# HE<br>12,000 cf | 20%<br>Phy.       |
| 4 AT 6<br>E-6   | H.E.<br>25' x 80' | Depth Charges (TNT)(Br.)                                   | 250,000# HE<br>12,000 cf | 50%<br>Exp.       |
| 4 AT 7<br>E-7   | H.E.<br>25' x 80' | Hedgehogs and Hand Grenades (Br.)<br>Hand Grenades (US)    | 250,000# HE<br>12,000 cf | 40%<br>Exp.       |
| 4 AT 8<br>E-8   | H.E.<br>25' x 80' | Black Powder Impulse Charges and<br>Blank Ctgs. (Br.)      | 250,000# HE<br>12,000 cf | 70%<br>Exp.       |
| 4 AT 9<br>E-9   | H.E.<br>25' x 80' | 250-lb. & 500-lb. Bombs (SAP)(Br.)<br>40-lb. Bombs         | 250,000# HE<br>12,000 cf | 90%<br>Exp.       |
| 4 AT 10<br>E-10 | H.E.<br>25' x 80' | 30-lb. Frag. Bombs. Mk. 5-3<br>1000 lb. Bombs, Mk. 33 (AP) | 250,000# HE<br>12,000 cf | 20%<br>Exp.       |
| 4 AT 11<br>E-11 | H.E.<br>25' x 80' | Demolition Blocks for disposal<br>Mk. 8 D.C.               | 250,000# HE<br>12,000 cf | 30%<br>Exp.       |
| 4 AT 12<br>E-12 | H.E.<br>25' x 80' | Empty  | 250,000# HE<br>12,000 cf | 20%<br>Exp.       |
| 4 AT 13<br>E-13 | H.E.<br>25' x 80' | Depth Charges, Mark 7                                      | 250,000# HE<br>12,000 cf | None<br>Exp.      |
| 4 AT 14<br>E-14 | H.E.<br>25' x 80' | Depth Charges, Mark 9-3                                    | 250,000# HE<br>12,000 cf | 20%<br>Exp.       |
| 4 AT 15<br>E-15 | H.E.<br>25' x 80' | Depth Charges, Mark 9                                      | 250,000# HE<br>12,000 cf | 60%<br>Exp.       |

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| Building Number | Assignment Size   | Present Contents  | Approved Capacity         | % Space Available |
|-----------------|-------------------|---|---------------------------|-------------------|
| 4 AT 16<br>E-16 | H.E.<br>25' x 80' | Depth Charges, Mk. 6 (Unserv.)  | 250,000# HE<br>12,000 cf  | 40%<br>Exp.       |
| 4 AT 17<br>E-17 | H.E.<br>25' x 80' | Depth Charges, Mark 6   | 250,000# HE<br>12,000 cf  | None<br>Exp.      |
| 4 AT 18<br>E-18 | H.E.<br>25' x 80' | 325-lb. Depth Bombs, Mark 17-2  | 250,000# HE<br>12,000 cf  | 10%<br>Exp.       |
| 4 AT 19<br>E-19 | H.E.<br>25' x 80' | 325-lb. Depth Bombs, AN-M 17-2<br>Mk. 44 TPX Loaded Depth Bombs                                 | 250,000# HE/<br>12,000 cf | 40%<br>Exp.       |
| 4 AT 20<br>E-20 | H.E.<br>25' x 80' | 5"/38 Projectiles WP (CW)<br>81-MM Mortar WP (CW)<br>Smoke Grenades (Br.)                       | 250,000# HE<br>12,000 cf  | 80%<br>Phy.       |
| 5 AT 1<br>S-1   | H.E.<br>25' x 80' | Incendiary Bomb Clusters, AN-M-54X<br>AN-M-54 and AN-M-54                                       | 250,000# HE<br>12,000 cf  | 95%<br>Phy.       |
| 5 AT 2<br>S-2   | H.E.<br>25' x 80' | Instructional Incendiary Bombs<br>Mk. 2 Incendiary Bomb Clusters<br>AN-M-54; AN-M-54 & AN-M-54X | 250,000# HE<br>12,000 cf  | None<br>Phy.      |
| 5 AT 3<br>S-3   | H.E.<br>25' x 80' | 500-lb. Bombs, AN-M-64 (GP)   | 250,000# HE<br>12,000 cf  | None<br>Phy.      |
| 5 AT 4<br>S-4   | H.E.<br>25' x 80' | Mk. 11 Tracer & Mk. 22 Primer   | 250,000# HE<br>12,000 cf  | 75%<br>Phy.       |
| 5 AT 5<br>S-5   | H.E.<br>25' x 80' | Smoke Pots (Duds for disposal)<br>Mk. 4A2<br>Smoke Pots (Stock)                                 | 250,000# HE<br>12,000 cf  | 60%<br>Exp.       |
| 5 AT 6<br>S-6   | H.E.<br>25' x 80' | Demo. & Shape charges<br>(Ammunition Handling School)   | 250,000# HE<br>12,000 cf  | 80%<br>Exp.       |
| 5 AT 7<br>S-7   | H.E.<br>25' x 80' | Incendiary Bomb Clusters: AN-M-50A2<br>AN-M-54, AN-M-54X  | 250,000# HE<br>12,000 cf  | 20%<br>Phy.       |
| 5 AT 8<br>S-8   | H.E.<br>25' x 80' | Smoke Floats & Pots   | 250,000# HE<br>12,000 cf  | 10%<br>Phy.       |
| 5 AT 9<br>S-9   | H.E.<br>25' x 80' | 1600-lb. Bombs, Mark 1 (AP)   | 250,000# HE<br>12,000 cf  | None<br>Exp.      |
| 5 AT 10         | H.E.              | 325-lb. Depth Bombs, Mark 41  | 250,000# HE<br>12,000 cf  | 10%<br>Exp.       |

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| Building Number | Assignment Size   | Present Contents   | Approved Capacity        | % Space Available |
|-----------------|-------------------|--|--------------------------|-------------------|
| 5 AT 11<br>S-11 | H.E.<br>25' x 80' | Bulk Exp. "D" for stock, Bulk Tetryl, Bulk TNT                                   | 250,000# HE<br>12,000 cf | 20%<br>Exp.       |
| 5 AT 12<br>S-12 | H.E.<br>25' x 80' | Impulse Charges (BP)<br>T-Cutters  | 250,000# HE<br>12,000 cf | 40%<br>Phy.       |
| 5 AT 13<br>S-13 | H.E.<br>25' x 80' | 4.5 Barrage Rockets<br>Mk. 3 Body, Mk. 9 Tail                                    | 250,000# HE<br>12,000 cf | 80%<br>Exp.       |
| 5 AT 14<br>S-14 | H.E.<br>25' x 80' | Empty  | 250,000# HE<br>12,000 cf | 100%<br>Exp.      |
| 5 AT 15<br>S-15 | H.E.<br>25' x 80' | 1000-lb. Bombs, AN-M-59 (SAP)  | 250,000# HE<br>12,000 cf | 45%<br>Exp.       |
| 5 AT 16<br>S-16 | H.E.<br>25' x 80' | 1000-lb. Bombs, AN-M-44  | 250,000# HE<br>12,000 cf | 95%<br>Exp.       |
| 5 AT 17<br>S-17 | H.E.<br>25' x 80' | 100-lb. Bombs, Mk. 4.0, 4.1, & 4.4   | 250,000# HE<br>12,000 cf | 50%<br>Phy.       |
| 5 AT 18<br>S-18 | H.E.<br>25' x 80' | AN-M-54 (HBX, TPX loaded)  | 250,000# HE<br>12,000 cf | 60%<br>Exp.       |
| 5 AT 19<br>S-19 | H.E.<br>25' x 80' | 100# Incendiary Clusters<br>AN-M-12 with M69 Ail. Bomb                           | 250,000# HE<br>12,000 cf | 25%<br>Phy.       |
| 5 AT 20<br>S-20 | H.E.<br>25' x 80' | Percussion Fuses Mk. 16-3-5<br>(for survey)<br>Mech. Time Fuses Mk. 23-4         | 250,000# HE<br>12,000 cf | 30%<br>Phy.       |
| 6 AT 1<br>W-1   | H.E.<br>25' x 80' | Incendiary Bomb Clusters (Tanks)<br>AN-M-54 & AN-M-54X<br>AN-M-50A1 & AN-M-50XA1 | 250,000# HE<br>12,000 cf | 30%<br>Phy.       |
| 6 AT 2<br>W-2   | H.E.<br>25' x 80' | Impulse Charges  | 250,000# HE<br>12,000 cf | 60%<br>Phy.       |
| 6 AT 3<br>W-3   | H.E.<br>25' x 80' | Photoflash Bombs   | 250,000# HE<br>12,000 cf | 90%<br>Phy.       |
| 6 AT 4<br>W-4   | H.E.<br>25' x 80' | Mk. 11 Tracer<br>Mk. 22 Primers  | 250,000# HE<br>12,000 cf | None<br>Phy.      |
| 6 AT 5<br>W-5   | H.E.<br>25' x 80' | Mk. 11 Tracer<br>Mk. 22 Primer   | 250,000# HE<br>12,000 cf | None<br>Phy.      |
| 6 AT 6<br>W-6   | H.E.<br>25' x 80' | 1.1 Fleet Returns  | 250,000# HE<br>12,000 cf | 40%<br>Phy.       |

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| Building Number | Assignment Size       | Present Contents   | Approved Capacity        | % Space Available |
|-----------------|-----------------------|--|--------------------------|-------------------|
| 6 AT 7<br>W-7   | H.E.<br>25' x 80'     | 500# Bombs AN-M64A1 (GP)   | 250,000# HE<br>12,000 cf | None<br>Exp.      |
| 6 AT 8<br>W-8   | H.E.<br>25' x 80'     | 325# Depth Bombs, Mark 17-1  | 250,000# HE<br>12,000 cf | 30%<br>Exp.       |
| 6 AT 9<br>W-9   | H.E.<br>25' x 80'     | 100-lb. Bombs, AN-M-30 (GP)<br>100-lb. Bombs, AN-M-30A1 (GP)         | 250,000# HE<br>12,000 cf | 30%<br>Phy.       |
| 6 AT 10<br>W-10 | H.E.<br>25' x 80'     | 650-lb. Depth Bombs, Mark 37<br>1000-lb. Depth Bombs, Mark 13-2      | 250,000# HE<br>12,000 cf | 15%<br>Exp.       |
| 6 AT 11<br>W-11 | H.E.<br>25' x 80'     | 250-lb. Bombs, AN-M-57 (GP)  | 250,000# HE<br>12,000 cf | 50%<br>Exp.       |
| 6 AT 12<br>W-12 | H.E.<br>25' x 80'     | Smoke Floats (British & French)<br>Rocket Bodies 3.5, 4.7, 5.0, (FS) | 250,000# HE<br>12,000 cf | 60%<br>Phy.       |
| 6 AT 13<br>W-13 | H.E.<br>25' x 80'     | Igniters, Mk. 14   | 250,000# HE<br>12,000 cf | 20%<br>Exp.       |
| 6 At 14<br>W-14 | H.E.<br>25' x 80'     | Rocket Heads (TNT)   | 250,000# HE<br>12,000 cf | 90%<br>Phy.       |
| 6 AT 15<br>W-15 | H.E.<br>25' x 80'     | 500# Bombs AN-M64A1 (GP)   | 250,000# HE<br>12,000 cf | 10%<br>Phy.       |
| 6 AT 16<br>W-16 | H.E.<br>25' x 80'     | 7.2" Bodies & Tails for AS<br>Projector Mark 10                      | 250,000# HE<br>12,000 cf | 85%<br>Phy.       |
| 6 AT 17<br>W-17 | H.E.<br>25' x 80'     | 1000-lb. Bombs, AN-M-59 (SAP)  | 250,000# HE<br>12,000 cf | 15%<br>Exp.       |
| 6 AT 18<br>W-18 | H.E.<br>25' x 80'     | Incendiary Bomb Clusters (Tanks)<br>AN-M-54 and AN-M-54X             | 250,000# HE<br>12,000 cf | None<br>Phy.      |
| 6 AT 19<br>W-19 | H.E.<br>25' x 80'     | 7.2" Bodies & Tails for AS<br>Projector Mark 10                      | 250,000# HE<br>12,000 cf | 20%<br>Phy.       |
| 6 AT 20<br>W-20 | H.E.<br>25' x 80'     | British Cordite  | 250,000# HE<br>12,000 cf | 60%<br>Phy.       |
| 7 AT 1<br>N-1   | Proj - D<br>25' x 80' | Deph Charges, Mark 8   | 250,000# HE<br>12,000 cf | 25%<br>Phy.       |
| 7 AT 2<br>N-2   | WHDs<br>25' x 80'     | Torpex Loaded Warheads<br>TNT Loaded Warheads                        | 250,000# HE<br>12,000 cf | None<br>Phy.      |

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| Building Number | Assignment Size       | Present Contents   | Approved Capacity         | % Space Available |
|-----------------|-----------------------|--|---------------------------|-------------------|
| 7 AT 3<br>N-3   | H.E.<br>25' x 80'     | Depth Charges, Mark 8  | 250,000# HE<br>12,000 cf  | 15%<br>Phy.       |
| 7 AT 4<br>N-4   | H.E.<br>25' x 80'     | 7.2" Bodies (TNT) & Tails for AS Projector Mark 10<br>Mark 1 Sub-caliber Bodies (Inert)                    | 150,000# HE*<br>12,000 cf | 10%<br>Phy.       |
| 7 AT 5<br>N-5   | WHDs<br>25' x 80'     | Depth Charges, Mark 8  | 50,000# HE*<br>12,000 cf  | None<br>Phy.      |
| 7 AT 6<br>N-6   | Misc.<br>25' x 80'    | Depth Charge Pistols, Mark 7   | 7,000# HE*<br>12,000 cf   | 20%<br>Phy.       |
| 7 AT 7<br>N-7   | Misc.<br>25' x 80'    | 7.2" Plaster Loaded Bodies & Tails for AS Projector Mark 10<br>2.25 Rocket Motors for AS Projector Mark 20 | 25,000# HE*<br>12,000 cf  | None<br>Phy.      |
| 7 AT 8<br>N-8   | D. Chgs.<br>25' x 80' | Empty  | 75,000# HE*<br>12,000 cf  | 100%<br>Exp.      |
| 7 AT 9<br>N-9   | D. Chgs.<br>25' x 80' | 7.2" Bodies (TNT) & Tails for AS Projector Mark 10   | 250,000# HE<br>12,000 cf  | None<br>Exp.      |
| 7 AT 10<br>N-10 | Misc.<br>25' x 80'    | Aux. Dets. Mark 44-1   | 60,000# HE*<br>12,000 cf  | 10%<br>Phy.       |
| 7 AT 11<br>N-11 | H.E.<br>25' x 80'     | Empty  | 250,000# HE<br>12,000 cf  | 100%<br>Exp.      |
| 7 AT 12<br>N-12 | H.E.<br>25' x 80'     | 2000# Bombs AN-M-66 (GP)   | 250,000# HE<br>12,000 cf  | None<br>Exp.      |
| 7 AT 13<br>N-13 | H.E.<br>25' x 80'     | 7.2" Heads for AS Projector Mark 20 & Mark 22  | 250,000# HE<br>12,000 cf  | None<br>Phy.      |
| 7 AT 14<br>N-14 | Misc.<br>25' x 80'    | 3"/50 Special  | 55,000# HE*<br>12,000 cf  | 20%<br>Phy.       |

Note: \*

Explosives in these magazines are limited for the protection of personnel working in nearby buildings.

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ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX G

REAL ESTATE DOCUMENTS

## APPENDIX G

### REAL ESTATE DOCUMENTS

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- G-1 Report of Excess, General Services Administration, 22 November 1961 (B-51).
- G-2 Deed, City of Weymouth, Massachusetts, 24 October 1966, for Great Esker Park (QD Buffer Area) (B-52).
- G-3 List of Present Day owners from CON/HTRW report for Project Number D01MA002202 (B-53).
- G-4 Report of Excess Real Property, First Naval District, 6 January 1961, Buildings Dispositions (B-54).
- G-5 Notice of Acceptance of Bid, First Naval District, 31 August 1961. Concerns buildings demolition and disposition (B-55).
- G-6 Typical condemnation order or taking for the Hingham Naval Ammunition Magazine, 15 February 1909 (B-56).
- G-7 Typical conveyance by sale for land for the Hingham Naval Ammunition magazine, 18 July 1906 (B-57).
- G-8 Typical "takings" by condemnation during the World War II expansion of the Naval Ammunition Depot at Hingham (B-58).
- G-9 Series of real estate maps relating to the site.

# Memorandum

Region 1  
Boston 9, Massachusetts

TO : The Administrator

Date: November 22, 1961

FROM : Regional Commissioner, GSA  
Region 1, Boston 9, Massachusetts

In reply refer to:

SUBJECT: Submission Pursuant to CHAP 1-302 ADM 5450.3  
Playground Area, NIR Shipyard (4.17 ac., 1 imp.)  
Hingham, Massachusetts GN-Mass-547

**PROPOSED ACTION.** To convey the subject property for park and recreational use under 13(h) of the '44 Act, to the Town of Hingham, Massachusetts.

**BACKGROUND.** Navy report of excess for entire 234.6 ac., 72 bldgs. and misc. facilities accepted 2/28/60. Determined surplus 3/7/60. Town applied 2/14/61 to acquire property for park-recreational use. Property has been used as a playground under terms of a permit issued by the Navy in 1950. Only Government-owned improvement on property is a dilapidated gatehouse. AFMV \$7,500. for residential use. NPS determined that subject property is suitable and desirable for the purposes requested and recommends conveyance to Town.

**RECOMMENDATION.** That the Reg. Comm. be authorized to consummate conveyance to the Town at 50% of the AFMV of \$7,500.

Recommended: [Signature] Regional Commissioner

[Signature] Ass't Commissioner, ORP DEC 1 1961  
Date

[Signature] Commissioner, UDS DEC 1 - 1961  
Date

TO: Regional Commissioner, GSA  
Region 1, Boston 9, Massachusetts

DEC 1 1961

FROM: The Administrator

Authority is granted to proceed with the conveyance as recommended and to take all necessary action for this purpose.

|                                 |              |
|---------------------------------|--------------|
| GENERAL SERVICES ADMINISTRATION | REGISTRATION |
| DEC 6 1961                      |              |
| <u>[Signature]</u>              |              |
| Mr. Heald                       |              |

[Signature]  
FRANCIS E. BOURNE  
Administrator



**LAND**

1. HOLDING AGENCY NO.

2. PAGE 2 OF 2 PAGES  
OF THIS SCHEDULE

3. GOVERNMENT INTEREST

LEASE  
 PERMIT  
 FEE  
 LICENSE  
 EASEMENT  
 INFORMAL AGREEMENT

GSA CONTROL NO. (GSA use only)

SCHEDULE B—SUPPLEMENT TO REPORT OF EXCESS REAL PROPERTY

| LINE NO.    | TRACT NO.    | NAME OF FORMER OWNER OR LESSOR AND ADDRESS | TRACT ACQUIRED (Acres or sq. ft.) | EXCESS REAL PROPERTY. |                   |               | TYPE OF ACQUISITION | RESTRICTIONS ON USE OR TRANSFER OF GOVERNMENT INTEREST |
|-------------|--------------|--|-----------------------------------|-----------------------|-------------------|---------------|---------------------|--|
|             |              |  |                                   | ACRES OR SQUARE FEET  | COST              | ANNUAL RENTAL |                     |  |
| (a)         | (b)          | (c)  | (d)                               | (e)                   | (f)               | (g)           | (h)                 | (i)  |
| 1           |              | Carried forward.....                       | 185.002                           | 183.983               | \$216,388.60      |               |                     |  |
| 2           |              | Civil 6661                                 |                                   |                       |                   |               |                     |  |
|             | A            | Wm. Daley                                  | 1.660                             | 1.660                 | 1,625.00          |               | Condem              |  |
| 4           | B            | W. L. Bourve                               | 0.980                             | 0.980                 | 600.00            |               | "                   |  |
| 5           | C            | Harry & Amy White                          | 13.610                            | 13.610                | 7,250.00          |               | "                   |  |
| 6           | D            | Mary A. Fee                                | 13.190                            | 13.190                | 2,650.00          |               | "                   |  |
| 7           | E            | Catherine Duggan                           | 0.229                             | 0.229                 | 200.00            |               | "                   |  |
| 8           | F            | Eliz. Hughes                               | 0.213                             | 0.213                 | 1,825.00          |               | "                   |  |
| 9           | G            | Nicola Liberta                             | 0.311                             | 0.311                 | 800.00            |               | "                   |  |
| 10          | H            | Jas. T. Nelson                             | 0.251                             | 0.251                 | 2,125.00          |               | "                   |  |
| 11          |              |  |                                   |                       |                   |               |                     |  |
| 12          |              | Civil 6511                                 |                                   |                       |                   |               |                     |  |
| 13          | 1            | Harry & Amy White                          | 1.000                             | 1.000                 | 10,600.00         |               | "                   |  |
| 14          |              | Easements                                  |                                   |                       |                   |               |                     |  |
| 15          |              | Civil 7432                                 |                                   |                       |                   |               |                     |  |
| 16          | 1            | Eliz. K. Worthington                       | 0.257                             | 0.257                 | 1,368.75          |               | "                   |  |
| 17          | 2            | Frank J. Wenzler                           | 0.031                             | 0.031                 | 750.00            |               | "                   |  |
| 18          |              | <del>Civil 7501</del>                      |                                   |                       |                   |               |                     |  |
| 19          | <del>1</del> | <del>Daley-Crossin Co.</del>               | <del>0.210</del>                  | <del>0.210</del>      | <del>150.00</del> |               | <del>"</del>        |  |
|             |              | Civil 6667                                 |                                   |                       |                   |               |                     |  |
| 21          | 1            | Com. of Mass.                              | 0.130                             | 0.130                 | 1.00              |               | "                   |  |
| 22          |              | Civil 7481                                 |                                   |                       |                   |               |                     |  |
| 23          | 1            | Bradley Park                               | 3.630                             | 3.630                 | 11,500.00         |               | "                   |  |
| 24          | <del>2</del> | <del>Devel. Co.</del>                      | <del>0.250</del>                  | <del>0.250</del>      | <del>227.00</del> |               | <del>"</del>        |  |
| 25          | 1 thru       | See Supplement 2                           | 9.102*                            | 9.102*                | Unknown           |               | Purchase            |  |
| 26          | 20           | to Attorney's report                       |                                   |                       |                   |               |                     |  |
| 27          |              |  |                                   |                       |                   |               |                     |  |
| 28          |              |  |                                   |                       |                   |               |                     |  |
| 29          |              |  |                                   |                       |                   |               |                     |  |
| 30          |              |  |                                   |                       |                   |               |                     |  |
| 31          |              |  |                                   |                       |                   |               |                     |  |
| 32          |              |  |                                   |                       |                   |               |                     |  |
| * estimated |              |  | TOTAL                             | 235.632               | 234.613           | \$7           | 33.35               |  |

9-1

*Great Esker Rd*

670

THIS DEED made by and between the UNITED STATES OF AMERICA, acting by and through the ADMINISTRATOR OF GENERAL SERVICES, under and pursuant to the powers and authority contained in the provisions of the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), as amended, and the Surplus Property Act of 1944 (58 Stat. 765), as amended, and particularly by Public Law 616, 80th Congress, approved June 10, 1948, and the regulations and orders promulgated thereunder, party of the first part, and the TOWN OF WEYMOUTH, acting by and through its BOARD OF SELECTMEN, its successors and assigns, party of the second part.

WITNESSETH: That said party of the first part for and in consideration of the continuous use and maintenance of the premises by the party of the second part, as and for public park and recreational purposes, as and to the extent herein provided, and in consideration of the payment of the sum of ONE HUNDRED TWELVE THOUSAND FIVE HUNDRED DOLLARS (\$112,500.00), to it in hand paid by the party of the second part, receipt of which is hereby acknowledged, by these presents grants unto the said party of the second part, its successors and assigns, the following described property situated in the Town of Weymouth County of Norfolk, Commonwealth of Massachusetts, bounded and described as follows:

A certain tract of land situated on the westerly side of the Weymouth Back River in the Town of Weymouth, County of Norfolk, Commonwealth of Massachusetts, as shown on a plan entitled, "Plan of Land Owned by the United States Government, Town of Weymouth, Department of Public Works, dated Jan. 18, 1965, Plan No. 1651-B more particularly bounded and described as follows:

Beginning at an unmarked point situated at the junction of The Weymouth Back River and the Fresh River, as shown on aforesaid plan, and said point being designated as corner 31 on Sheet No. 14 of the Atlas of Boundaries of the Towns of Cohasset-Weymouth, Norfolk County; Hingham-Hull, Plymouth County, dated 1901, the said point being one of the corners of the boundary line between the Town of Weymouth in Norfolk County and the Town of Hingham in Plymouth County;

THENCE running S 69° 32' 30" W, 825 feet to a stone bound;

THENCE in the same direction 602.58 feet to a stone bound;

THENCE N 7° 44' 52" W, 847.31 feet to a stone bound;

THENCE N 23° 25' 43" E, 240.79 feet to a stone bound;

THENCE N 1° 59' 54" W, 246.05 feet to a stone bound;

THENCE N 19° 44' 42" W, 877.32 feet to a stone bound;

THENCE S 89° 21' 15" W, 544.75 feet to a stone bound;

THENCE N 47° 38' 00" W, 452.19 feet to a stone bound;

THENCE N 2° 03' 05" E, 394.20 feet to a stone bound;

THENCE N 15° 50' 17" W, 303.13 feet to a stone bound;

THENCE N 9° 27' 31" E, 384.00 feet to a stone bound;

THENCE N 15° 46' 03" E, 170.35 feet to a stone bound;

THENCE N 7° 21' 45" E, 256.97 feet to a stone bound;

THENCE N 22° 44' 14" E, 240.23 feet to a stone bound;

THENCE N 1° 16' 44" W, 374.15 feet to a stone bound;

THENCE N. 24° 55' 55" W 386.67 feet to a stone bound;

THENCE N 1° 58' 22" E, 350.93 feet to a stone bound;

THENCE N 68° 31' 59" W, 704.02 feet to a stone bound;

THENCE N 4° 04' 38" E, 2406.93 feet to a stone bound on the southerly side of Bridge Street, as laid out by the Highway Commission of the Commonwealth of Massachusetts, and as shown on the said plan;

THENCE N 69° 15' 50" E, following the said southerly side line of said Bridge Street 289.60 feet to a stone bound;

THENCE N 89° 00' 49" E, 320.64 feet to an unmarked point in the Weymouth Back River, said point being on the boundary line between the aforesaid Town of Weymouth in Norfolk County and the Town of Hingham, in Plymouth County;

THENCE in a general southerly and southwesterly direction through the Weymouth Back River following the boundary line between the aforesaid Towns of Weymouth and Hingham to the point of beginning.

Including the island in the said Weymouth Back River, as shown on aforesaid plan, commonly called and known as Whale Island.

Together with all flats thereto appertaining.

Containing by estimation 237 acres, of which about 1.2 Acres consist of said Whale Island.

Said property is conveyed subject to the following:

1. An easement for a period not exceeding 50 years to the Weymouth Light and Power Company for the construction, installation, maintenance, repair and replacement of two overhead electric power lines, said easement having been granted by deed dated March 30, 1956 and duly recorded in the Norfolk County Registry of Deeds in Book 3470, Page 51.

2A

2. A perpetual easement to the Town of Weymouth for the construction, installation, maintenance, operation and repair of a 30-inch sewer pipeline, said easement having been granted by deed dated Jan. 23, 1961 and duly recorded in the Norfolk Registry of Deeds in Book 3877, Page 69.
3. A perpetual right and easement for the installation, repair, replacement, operation, and maintenance of an electrical transmission line together with all appurtenances incidental thereto as contained in deed from the United States of America to Massachusetts Electric Company dated December 7, 1965 and recorded with Norfolk County Registry of Deeds.

4. Reversion of title to certain tidewater lands to the Commonwealth of Massachusetts which were ceded to the United States by the Commonwealth pursuant to Chapter 446 of the Acts of the Massachusetts Legislature, approved May 26, 1905.

This deed is executed and delivered to the TOWN OF WEYMOUTH, Massachusetts without any covenants whatsoever, either express or implied.

2B

Said property transferred hereby was duly determined to be surplus and was assigned to the ADMINISTRATOR of GENERAL SERVICES for disposal, pursuant to the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), and applicable rules, orders and regulations.

In the event there is a breach of any of the conditions and covenants herein contained by the party of the second part, its successors and assigns, whether caused by the legal inability of said party of the second part, its successors and assigns, to perform said conditions and covenants, or otherwise, all right, title and interest in and to all of the said premises shall revert to and become the property of the United States of America at its option, and it shall have the immediate right of entry on said premises and the party of the second part, its successors and assigns, shall forfeit all right, title and interest in said premises and in any and all of the tenements, hereditaments and appurtenances thereunto belonging;

PROVIDED, HOWEVER, that the failure of the Secretary of Interior, or his successor in function, to require in any one or more instances complete performance of any of the conditions or covenants herein contained shall not be construed as a waiver or relinquishment of such future performance, but the obligation of the party of the second part, its successors and assigns, with respect to such future performance, shall continue in full force and effect.

The party of the second part does by the acceptance of this deed covenant and agree for itself, and its successors and assigns, forever, as follows:

1. The premises above-described shall be continuously used and maintained as and for public park purposes and for a public recreational area, for incidental purposes relating thereto, but for no other purposes.
2. The party of the second part, its successors and assigns, shall file biennial reports with the Secretary of Interior, or his successor in function, setting forth the use of the property during the preceding two-year period, and other pertinent data establishing its continuous use of the premises for the purposes set forth above.
3. The party of the second part will not sell, lease, assign, or otherwise dispose of any of the premises above-described except to another local governmental agency that the Secretary of Interior, or his successor in function, is satisfied can assure the continued use and maintenance of the property for public park and for a public recreational area.
4. The party of the first part shall have the right during the existence of any national emergency declared by the President of the United States of America, or the Congress thereof, including the presently existing national emergency, to the full, unrestricted possession, control, and use of the premises, or any part thereof, without charge; EXCEPT THAT the party of the first part shall be responsible during the period of such use, for the entire cost of maintaining the premises, or any portion thereof so used, and shall pay a fair rental for the use of any installations or structures which have been added thereto without Federal aid.
5. a. The program for or in connection with which this deed is made will be conducted in compliance with, and the party of the second part, its successors and assigns, will comply with, and will require any and all other persons to comply with, all requirements imposed by or pursuant to the regulations of the General Services Administration as in effect on the date of

this deed (41 CFR Subpart 101-6.2) issued under the provisions of Title VI of the Civil Rights Act of 1964;

- b. This covenant shall be subject in all respects to the provisions of said regulations;
- c. Party of the second part, its successors and assigns, will promptly take and continue to take such action as may be necessary to effectuate this covenant;
- d. The United States shall have the right to seek judicial enforcement of this covenant and;
- e. Party of the second part, its successors and assigns, will obtain from each other person who through contractual or other arrangements with said party of the second part, its successors or assigns, is authorized to provide services or benefits under said program, a written agreement pursuant to which such other person shall, with respect to the services or benefits which he is authorized to provide, undertake for himself the same obligations as those imposed upon the party of the second part by this covenant, and shall furnish the original of such agreement to the Secretary of the Interior or his successor upon his request therefor. This covenant shall run with the land hereby conveyed and shall in any event without regard to technical classification or designation, legal or otherwise, be binding to the fullest extent permitted by law and equity for the benefit of and in favor of party of the first part and enforceable by said party against the party of the second part, its successors and assigns.
- 6. In the event of a breach of any condition or covenant herein imposed, the Secretary of Interior, or his successor in function, may immediately enter and possess himself of title to the herein-conveyed premises for and on behalf of the United States of America.

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7. In the event of a breach of any condition or covenant herein imposed, the party of the second part will, upon demand by the Secretary of Interior, or his successor in function, take such action, including the prosecution of suit, or execute such instruments, as may be necessary or required to evidence transfer of title to the herein conveyed premises to the United States of America.

IN WITNESS WHEREOF, the UNITED STATES OF AMERICA, acting by and through the ADMINISTRATOR of GENERAL SERVICES, has caused these presents to be executed in its name and behalf by the Regional Administrator, General Services Administration, Boston, Massachusetts, and the TOWN OF WEYMOUTH, acting by and through its Board of Selectmen, to evidence its accord with, acceptance of and agreement to be bound by the reservations, conditions, and covenants herein contained, has caused these presents to be executed in its name and behalf on this 24th day of October

1966.

UNITED STATES OF AMERICA  
Acting By and Through the  
ADMINISTRATOR OF GENERAL SERVICES

By Paul Lazzaro  
Regional Administrator  
General Services Administration  
Boston, Massachusetts



W. J. [Signature]  
[Signature]

TOWN OF WEYMOUTH  
Acting By and Through its  
Board of Selectmen



By Franklin Fryer  
Franklin Fryer, Chairman

By Herbert A. Chubbuck  
Herbert A. Chubbuck

WITNESSES:

[Signature]  
[Signature]

By Ralph J. Amabile, Jr.  
Ralph J. Amabile, Jr.

By Raymond E. Buchan  
Raymond E. Buchan

By J. Warren Hefferman  
J. Warren Hefferman

COMMONWEALTH OF MASSACHUSETTS) ss.  
COUNTY OF SUFFOLK

In Boston, in said County and State on this 24th day of October 1966, before me, personally appeared PAUL LAZZARO, Regional Administrator, General Services Administration, Boston, Massachusetts, duly empowered and authorized and delegated by the Administrator of General Services Administration (28 Federal Register 14472), to me known and known by me to be the party executing the foregoing instrument and acknowledged said instrument by him duly executed, to be the free act and deed of the UNITED STATES OF AMERICA, as his free act and deed individually, and in his capacity as Regional Administrator, General Services Administration, Boston, Massachusetts.

*Charles G. Callahan*

Notary Public Charles G. Callahan, Notary Public  
My Commission Expires 12/31/1974



COMMONWEALTH OF MASSACHUSETTS) ss.  
COUNTY OF NORFOLK

In Weymouth, in said County and State, on this 24th day of October 1966, before me, personally appeared Franklin Fryer, Herbert A. Chubbuck, Ralph J. Amabile, Jr., Raymond E. Buchan, and J. Warren Heffernan, duly empowered and authorized, who signed the foregoing instrument and acknowledged the same to be his free act and deed in his said capacity and the free act and deed of the TOWN OF WEYMOUTH.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year aforesaid.



*John A. Donoghue*  
John A. Donoghue  
Notary Public  
My Commission Expires 6/16/72

Recorded Oct. 25, 1966 at 9h.A.M.

NAVAL AMMUNITION DEPOT  
HINGHAM, MA  
SITE NO. D01MA002202  
NARRATIVE

This site is a former WWI and WWII Naval munitions manufacturing and testing plant. It was closed in 1956 after WWII and reported to GSA for disposal in 1971. No major activity is known to have been carried on up until the time the site was transferred to the local municipalities, the Towns of Hingham and Weymouth, for parks and recreation purposes by Deed, dated 2 May 1972. The towns have been the sole owners since that time, except for some small areas which were sold to private interests.

The site originally consisted of approximately 1014 acres of land, see Map 1. The Town of Weymouth's current area consists of 273 acres and is the location of Great Esker Park. The Town of Hingham's current area consists of 470 acres, the rest of the site is broken down to 63 acres for school purposes, 160 acres for housing and 48 acres for light industry/office parks. The towns's parks and recreation area contain three small alternative use areas, 2 acres for the South Shore Day Care Center, 7 acres for a Drug Rehabilitation Center and 3 acres for the South Shore Conservatory of Music, each of these three small areas include rehabilitated wood frame structures that were left as part of the original military reservation.

There are currently fourteen separate tracts of land between the two communities. This report will address each tract of land separately. The following table lists each tract with it's associated acreage:

|   | <u>acres</u> |                             |
|---|--------------|-----------------------------|
| Town of Weymouth  |              |                             |
| Great Esker Park  | 273.000      | DEED 10-24-66               |
| State of Massachusetts  |              |                             |
| <i>State Department</i> Mass Division of Drug Rehabilitation                | 7.267        |                             |
| Mass Division of Fisheries and Wildlife                                     | 16.432       | PT SALAN 12-14-73           |
| Mass Department of Public Works   | 15.370       | PT SALAN 12-14-73           |
| Private Development   |              |                             |
| <i>Deed 2-21-72</i> <i>Deed 1-14-74</i> — South Shore Conservatory of Music | 3.451        |                             |
| Hingham Mutual Life Insurance Co.   | 12.059       | PT SALAN 12-14-73           |
| Beals Cove Village  | 23.070       | 17.455 < 85.6 DEED 12-17-73 |
| Hingham Woods   | 44.385       |                             |
| Private Residential   | 83.846       | 86.014 DEED 9-12-73         |
| Town of Hingham   |              |                             |
| South Shore Day Care  | 2.220        | DEED 9-25-74                |
| Hingham School Tract I  | 5.236        | 6.365 DEED 12-17-73         |
| Hingham School Tract II   | 18.100       | DEED 12-17-73               |
| Hingham School Tract IV   | 39.690       | #1.91 DEED 12-17-73         |
| 1972 — Bare Cove Park   | 470.140      |                             |

|   |   |
|---|---|
| FROM<br><b>Commanding Officer<br/>U. S. Naval Ammunition Depot<br/>Hingham, Massachusetts</b> | VIA:<br><b>COMMANDANT, FIRST Naval District</b>   |
| TO<br><b>DISTRICT PUBLIC WORKS OFFICER<br/>FIRST Naval District<br/>Boston, Massachusetts</b> | ENCLOSURES<br>(1) NAVDOCKS 2489A (REV. 9-58) (5 copies)<br>(2) <del>XXXXXXXXXXXX</del> Memo of Findings<br>(3)<br>(4)<br><br>DELETE OR ADD ENCLOSURES AS APPLICABLE |

|  |  |
|--|--|
| 1. PROPERTY IDENTIFICATION (Activity)<br><b>U. S. Naval Ammunition Depot, Hingham, Massachusetts</b> | 2. DATE PROPERTY WILL BECOME EXCESS TO LOCAL NEEDS<br><b>December 1960</b> |
|--|--|

|  |  |
|--|--|
| 3. PRESENT USE<br><b>* See remarks</b> | 4. FORMER USE<br><b>** See remarks</b> |
|--|--|

| 5. USE     | NUMBER OF BUILDINGS | FLOOR AREA (SQ. FT.) | 6. ACQUISITION COST TO GOVERNMENT                                |           |
|------------|---------------------|----------------------|--|-----------|
|            |                     |                      | ITEM   | COST      |
| A. OFFICE  | 0                   | 0                    | A. BUILDINGS, STRUCTURES, UTILITIES AND MISCELLANEOUS FACILITIES | \$ 80,197 |
| B. STORAGE | 3                   | 3,010                | B. RELATED PERSONAL PROPERTY                                     | \$ 0      |
| C. OTHER   | 3                   | 15,186               | C. TOTAL   | \$ 80,197 |
| D. TOTAL   | 6                   | 18,196               |  |           |

|  |  |
|--|--|
| 7. NATURE OF LAND-INTEREST HELD BY GOVERNMENT<br><input checked="" type="checkbox"/> GOVERNMENT OWNED <input type="checkbox"/> LEASED <input type="checkbox"/> OTHER _____ | 8. ESTIMATED ANNUAL PROTECTION AND MAINTENANCE COST<br><input checked="" type="checkbox"/> GOVERNMENT OWNED <input type="checkbox"/> OTHER    \$ _____ |
|--|--|

9. PROPERTY DESCRIPTION    **See enclosure (1)**

( Bldgs. 9 and 185, all materials to be removed down to adjacent ground level.  
 ( Bldgs. 35, 85 and 115, all materials to be removed down to the concrete floors.  
 10. SITE CLEARANCE ( Bldg. E-2, all materials to be removed down to one foot below the adjacent ground level and the remaining excavation to be filled to adjacent ground level.

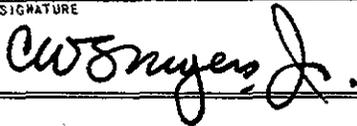
11. NAMES AND ADDRESSES OF INTERESTED FEDERAL AGENCIES AND OTHER INTERESTED PARTIES (If there is a chapel included, any requests for the chapel should accompany the report giving the name, addresses and denomination of applicant.)

12. REMARKS (Indicate restrictions on use transfers of government interest, if any)

| Bldg. No. | * Present Use | ** Former Use       |
|-----------|---------------|---------------------|
| 9 BuWEPs  | Not in use    | Storage             |
| 35 BuWEPs | Not in use    | Ordnance Production |
| 85 BuWEPs | Not in use    | Ordnance Production |
| 115       | Not in use    | Storage             |
| 185       | Not in use    | Storage             |
| E-2       | Not in use    | Marine Barracks     |

Note: For Management Bureau concurrences, see BuOrd letter Es3a-2-JFHK:pew 18-5/NT/1 of 18 Aug 1959 (Copy to DPWO LND) and BuWeps letter SFRE-21-WHS of 29 Dec 1960 (Copy to DPWO LND).

I CERTIFY THAT THE ABOVE DESCRIBED PROPERTY IS EXCESS TO THE NEEDS OF THIS ACTIVITY AND THAT ANY NECESSARY MANAGEMENT BUREAU CONCURRENCES HAVE BEEN OBTAINED.

|  |   |                           |
|--|---|---------------------------|
| REPORT AUTHORIZED BY (Type name and title)<br><b>C. W. SMYERS, JR., CDR USN<br/>Commanding Officer</b> | SIGNATURE<br> | DATE<br><b>6 Jan 1961</b> |
|--|---|---------------------------|



three hundred dollars. It is now, to wit, on this fifteenth day of February A.D. 1909, further ordered, adjudged and decreed that upon the payment within thirty days after the date of this decree of the sum of three hundred dollars into the registry of this Court, for the use of the owners and persons interested in said land, the fee of said land hereinbefore described, and all easements, rights and interests therein be vested in the United States of America, to have, hold, possess and enjoy for its use forever.

By the Court, Frank H. Mason Clerk.

District Court of the United States, District of Massachusetts. I, Frank H. Mason, Clerk of said Court, hereby certify that the foregoing is a true copy of the Decree of Condemnation of lands belonging to persons unknown, entered on the fifteenth day of February, 1909, in the cause in said District Court depending, entitled, The United States of America, Petitioner for Condemnation of Certain Lands at Hingham and Weymouth, and numbered 1725 on the General Docket of said Court. In testimony whereof, I hereunto set my hand, and affix the seal of said Court, at Boston, in said District, this sixteenth day of February A.D. 1909.

Seals Frank H. Mason, Clerk.

Rec'd March 6, 1909 at 9-10 A.M. recorded.

The United States of America  
District Court of the United States, District of Massachusetts.  
The United States of America, Petitioner for Condemnation.

Hobart v.als  
to  
United States of  
America.

No. 1725.

Certain Lands at Hingham and Weymouth.  
Decree of Condemnation.

(February 15, 1909)

Dodge J. It appearing that upon the filing of the petition in the above-entitled cause, on the seventh day of August A.D. 1905 due and sufficient notice was given, in accordance with the order of this Court and requirements of law, to William M. Hobart and Edmund L. Hobart, both of Hingham in the District of Massachusetts, and to Olive M. Hobart of Boston, in said district, and to any and all other persons who might have, or claim to have any interest in certain lands included within the tract described in said petition and shown on a plan entitled Plan of Lands at Hingham

and Weymouth, Mass. to be acquired by the United States of America as the site for a Naval Magazine, and recorded with Plymouth Deeds, to wit: all that parcel of land containing about one acre and thirty-seven one-hundredths of an acre, situated at Hingham in the County of Plymouth in said District, bounded and described as follows: Easterly and Southerly by Hochley Lane, so called, Westerly by land late of Hannah L. Stoddard, and Northerly by land late of Michael F. Gorman; that no person interested or claiming to be interested in said land appeared or answered to said petition, after due opportunity had been given for all persons so interested, or claiming to be interested, to appear in said cause: that thereupon, on the twenty-first day of January A.D. 1909, a jury having been duly impanelled and sworn to determine the value of said land for the purpose of making just compensation to the lawful owners thereof, and persons interested therein, thereafter, to wit: on said twenty-first day of January, the said jury returned into Court its verdict in which it found that William M. Hobart, Olive M. Hobart and Edmund L. Hobart were, on August 7, 1905, the owners of said land, and assessed damages in the sum of Six Hundred Dollars (\$600). And it appearing to said Court that the said William M. Hobart, Olive M. Hobart and Edmund L. Hobart are the only persons interested in said land, and that no other person appears to have any interest therein, it is ordered, adjudged and decreed that on the seventh day of August A.D. 1905, William M. Hobart and Edmund L. Hobart, both of said Hingham, and Olive M. Hobart of said Boston, were the sole owners in fee simple of all the lands hereinbefore described, and that the value of said lands on said seventh day of August, considered as the value of an entire estate in fee simple, including all damages which will be sustained by the said Hobarts, by reason the condemnation thereof to the use of the United States of America, was six hundred dollars. It is now, to wit, on this fifteenth day of February A.D. 1909, further ordered, adjudged and decreed that upon the payment within thirty days after the date of this decree to the said William M. Hobart, Olive M. Hobart and Edmund L. Hobart of the sum of Six Hundred Dollars, or upon the

neglect or refusal of the said Hobarts to receive said sum, then upon the payment of said sum into the registry of this court for the use of the said Hobarts, the fee of said land hereinbefore described, and all easements, rights and interests therein be vested in the United States of America, to have, hold, possess and enjoy for its use forever.

By the Court: Frank H. Mason Clerk.  
 District Court of the United States, District of Massachusetts.  
 I, Frank H. Mason, Clerk of said Court, hereby certify that the foregoing is a true copy of the Decree of Condemnation of land belonging to William M. Hobart et al. entered on the fifteenth day of February, 1909 in the cause in said District Court depending, entitled, The United States of America, Petitioner for Condemnation of Certain Lands at Hingham and Weymouth, and numbered 1725 on the General Docket of said Court. In testimony whereof, I hereunto set my hand, and affix the seal of said Court, at Boston, in said District, this eighteenth day of February, A.D. 1909.

Seal: Frank H. Mason Clerk.  
 Recd. March 6, 1909 at 9:05 AM recorded.

Know all Men by these Presents, that the Town of Bridgewater, in the County of Plymouth and Commonwealth of Massachusetts, in consideration of One Dollar and other valuable considerations paid by Amanda M. Wood of said Bridgewater, the receipt whereof is hereby acknowledged, does hereby give, grant, bargain, sell and convey unto the said Amanda M. Wood, a certain parcel of land with the buildings thereon situated in said Bridgewater, on the southeasterly side of Curro Street, bounded as follows: begin at the Northwest corner of said parcel in said Curro Street at a point in a line passing through the centre of the house, and a corner of land of the heirs of Mary Washburn; thence in said heirs' line South 83° 45' East 3 rods 8 links; thence in said heirs' line North 13 1/2° East 6 rods 23 links to said Curro Street; thence northeasterly by said street to land formerly owned by Sarah Carver, and now by J. Gardner Bassett; thence southerly in said Bassett's line to land of the grantee; thence westerly in line of the grantee to land of the heirs of Mary Washburn;

Town of Bridgewater  
 to  
 Wood.

# Know all Men by these Presents,

that I, Morallus Lane, of Hingham in the County of Plymouth and Commonwealth of Massachusetts

in consideration of one hundred and thirty dollars (\$130.) paid by the United States of America

the receipt whereof is hereby acknowledged, do hereby give, grant, bargain, sell, and convey unto the said United States of America two certain parcels of land situated in said Hingham, and bounded and described as follows: 1. All that parcel of land, containing twenty-three thousand square feet more or less, bounded north-erly by land of D. Edwin W. Fearing, easterly, southerly and westerly by Fresh River; 2. All that parcel of land containing twenty-eight thousand four hundred square feet more or less, bounded northerly by land of Charles Woodruff, easterly by land of Benjamin F. Whitman, southerly by said Fresh River, and westerly by land of Bela P. French together with all flats appertaining to said parcels being the same premises conveyed to me by my mother Priscilla Lane, by deed dated May 2, 1864 and recorded with Plymouth Deeds, Book 328, page 63, intending hereby to convey all the land of the grantor lying within the boundaries of the tract of land to be condemned by the United States, as shown on a plan entitled, "Plan of Lands at Hingham and Weymouth, Mass. to be acquired by the United States of America as the site for a Naval Magazine" and recorded with Plymouth Deeds, Book 1, Page 1.

To have and to hold the granted premises, with all the privileges and appurtenances thereto belonging to the said United States of America and its heirs and assigns, to their own use and behoof forever. And I, myself and my heirs, executors, and administrators, COVENANT with the grantee and its heirs and assigns, that I am lawfully seized in fee-simple of the granted premises, that they are free from all incumbrances.

that I have good right to sell and convey the same as aforesaid; and that I will, and my heirs, executors, and administrators shall WARRANT AND DEFEND the same to the grantee and its heirs and assigns forever, against the lawful claims and demands of all persons.

And for the consideration aforesaid, I Ellen J. Lane wife of the said Morallus Lane do hereby release unto the said grantee and its heirs and assigns, all right of or to both DOWER and HOMESTEAD in the granted premises, and all other rights and interests therein.

In witness whereof, we the said Morallus Lane and Ellen Lane

hereunto set our hands and seals this eighteenth day of July in the year one thousand nine hundred and and

Signed, sealed and delivered in presence of  
Edward P. Deasey } Morallus Lane [SEAL]  
Witness to both } Ellen J. Lane [SEAL]

Commonwealth of Massachusetts.  
Plymouth, ss. July 18 1906

Then personally appeared the above-named Morallus Lane and acknowledged the foregoing instrument to be his free act and deed, before me, Edward P. Deasey Notary Public in and for the County of Plymouth, State of Massachusetts.

Res'd Sept 4 1906. At S. A. M., and Recorded. John P. Washburn Register.

G-7

this 24th day of June 1942.

Wallace R. Marden  
Trustee as aforesaid

THE COMMONWEALTH OF MASSACHUSETTS

Suffolk, ss. June 24, 1942. Then personally appeared the above-named Wallace R. Marden, Trustee of the Investment Realty Trust and acknowledged the foregoing instrument to be his free act and deed, before me-

Howard Klein Notary Public

My commission expires May 18, 1945.

Rec'd July 2, 1942 at 9:00 A. M. & recorded.

Weld  
Appointment & Acceptance as Trustee

See  
Bk. 899  
Pg. 47

KNOW ALL MEN BY THESE PRESENTS

that WHEREAS HENRY W. MONTAGUE, late of Boston in the County of Suffolk and Commonwealth of Massachusetts, died on February 23, 1942, and at the time of his death, by virtue of an instrument of appointment dated November 4, 1921, and recorded with Plymouth County Deeds, Book 1395, Page 574, was the sole Trustee of the trust created under an Agreement of Trust between STEPHEN M. WELD, late of Wareham in the County of Plymouth in said Commonwealth, the undersigned, S. EDITH WELD (then named S. Edith Waterbury), and MOSES WILLIAMS and LAURENCE MINOT, dated May 23, 1904, and recorded with said Deeds, Book 899, Page 47, - being a marriage settlement trust, - NOW, THEREFORE, I, the undersigned, S. Edith Weld, widow of said Stephen M. Weld, acting herein by virtue of the power and authority upon me in said Agreement of Trust conferred, do hereby nominate and appoint HORACE W. FROST, of Cambridge, Massachusetts, to be the Trustee under said Agreement, to fill the vacancy caused by the death of said Henry W. Montague. And I the said Horace W. Frost hereby accept the foregoing appointment as Trustee. WITNESS the execution hereof by the undersigned this first day of July, 1942.

S. Edith Weld  
Horace W. Frost

COMMONWEALTH OF MASSACHUSETTS

Suffolk, ss. July 1st, 1942. Then personally appeared the above named S. Edith Weld and Horace W. Frost, and acknowledged the foregoing instrument to be their free act and deed. Before me-

Seal Charles K. Pope Notary Public

My commission expires May 18, 1945.

Rec'd July 2, 1942 at 9:00 A. M. & recorded.

White et al  
to  
U. S. of  
America

IN THE DISTRICT COURT OF THE UNITED STATES  
FOR THE DISTRICT OF MASSACHUSETTS

UNITED STATES OF AMERICA,  
Petitioner,

v.

4 ACRES OF LAND, MORE OR LESS,  
IN THE TOWN OF HINGHAM,  
PLYMOUTH COUNTY, MASSACHUSETTS,  
HARRY L. WHITE, AMY L. WHITE,  
ET AL.,  
Defendants.

MISC. CIVIL NO. 6541

JUDGMENT ON THE DECLARATION OF TAKING  
(June 15, 1942.)

SWEENEY, J. This cause coming on for hearing upon motion of EDMUND J. BRANDON, United States Attorney in and for the District of Massachusetts, and PHILIP P. A. O'CONNELL, Special Assistant to the United States Attorney in and for the said District, attorneys for the petitioner herein, to enter a judgment on the declaration of taking filed herein and for an order fixing the date for the surrender of possession of the land, with all the improvements thereon, herein described, to the petitioner, and upon consideration thereof and of the petition and declaration of taking filed herein and the statutes in such case made and provided, and it appearing to the satisfaction of the Court: FIRST, that the United

States of America is entitled to acquire property by condemnation under judicial process for the purposes as set forth and prayed for in said petition; SECOND, that the declaration of taking filed herein contains, or has annexed thereto a statement of the authority under which and the public use for which the lands hereinafter described are taken, a description of the said lands taken sufficient for the identification thereof, a statement of the estate or interest taken for the said public use, a plan showing the lands taken, and a statement of the sum of money estimated by the Acting Secretary of the Navy, acting for and in the capacity of the Secretary of the Navy of the United States of America, to be just compensation for the land taken in the total sum of \$10,600.00, and that said amount has been deposited into the registry of this Court for the use and benefit of the persons entitled thereto; THIRD, that the said declaration of taking filed herein contains a statement that the Acting Secretary of the Navy, in his said capacity, the head of the acquiring agency, is of the opinion that the ultimate award of just compensation will be within the limits prescribed by Congress as the price to be paid therefor; NOW THEREFORE, it is ORDERED, ADJUDGED AND DECREED that the title to the said land, in fee simple absolute, together with the use and occupancy, possession and control of the shores and tidelands adjacent to the uplands hereinafter described, vest in the United States of America upon the filing of the said declaration of taking and the depositing in the registry of this Court of the amount of estimated just compensation, which land is situate in HINGHAM, Plymouth County, Massachusetts, and shown on a photostatic copy of a map dated May 8, 1942, entitled, "Plan of Land in Hingham, Mass." which is attached as Exhibit "A" and made a part thereof, of declaration of taking herewith filed. Said lands are more particularly described as follows: Beginning at a point which is the intersection of the northerly street line of Lincoln Street in the Town of Hingham and the present westerly boundary line of the Bethlehem-Hingham Shipyard, Inc., thence S. 70° 52' 39" W. 450 feet to a point; thence N. 19° 07' 21" W. 365 feet to a point; thence N. 70° 52' 39" E. 210 feet to a point; thence N. 19° 07' 21" W. 130 feet, more or less, to the mean high water line of the Weymouth Back River; thence in a southeasterly direction along the mean high water line of the Weymouth Back River to the intersection of the west property line of the Bethlehem-Hingham Shipyard, Inc.; thence S. 19° 07' 21" E. along the west line of the Bethlehem-Hingham Shipyard, Inc., 325 feet, more or less, to the place of beginning, containing 4 acres, more or less, together with all and singular the hereditaments and appurtenances thereunto belonging or in anywise appertaining, and together with all accretion land, riparian rights, and improvements thereon. Name of purported owners, Harry L. and Amy L. White, Hingham, Massachusetts and that said land is deemed to be condemned and taken for the United States of America, and the right to just compensation for the property so taken is vested in the persons entitled thereto; and the amount of such just compensation shall be ascertained and awarded in this proceeding and established by judgment herein pursuant to law, and IT IS FURTHER ORDERED, ADJUDGED AND DECREED that possession of the above-described property shall be surrendered to the United States of America and its duly authorized agents forthwith. It is further ordered that the United States Marshal be and he is hereby directed and instructed forthwith to serve an attested copy of this judgment upon any of the occupants now in possession of the above-described premises, or if no such occupants are found in actual possession of said premises, then he is ordered to post such attested copy at a conspicuous place upon said premises and forthwith make due return of said service to this Court.

BY THE COURT:

Geo. C. Sweeney  
6-15-42

Mary G. Traverse Deputy Clerk

3:30 P.M.

A true copy: ATTEST: James S. Allen Clerk

Seal

Rec'd July 2, 1942 at 9:00 A. M. & recorded.

MARY L. IRIS holder of a mortgage from  
MABEL E. SNELL to MARY L. IRIS wife of HARVEY IRIS dated April 8,  
1940. recorded with Plymouth Deeds Book 1784, Page 257. acknowledge

Iris  
to  
Snell

Massachusetts, situated on the southerly side of Auburn Street, containing one (1) acre, more or less, and bounded and described as follows: Beginning at a point in the southerly line of said Auburn Street; thence South 7 $\frac{1}{2}$ ° West two hundred ninety-six (296) feet by land now or formerly of one Benson; thence Easterly one hundred forty-seven and two-tenths (147.2) feet by land of one Harlow; thence Northerly by land of said Harlow, two hundred ninety-six (296) feet to said Auburn Street; thence by said Auburn Street, Westerly one hundred forty-seven and two-tenths (147.2) feet to the point of beginning. Said grantee to maintain the fences on the southerly and easterly lines of the within conveyed lot where the within lot adjoins land formerly of Franklin P. Harlow. Being a portion of the premises conveyed to us, the within grantors, by deed of Arthur Hans et ux, dated October 20, 1939, and duly recorded with Plymouth County Registry of Deeds. We, Andreas S. Gudmundsson and Elizabeth A. Gudmundsson, husband and wife, release to said grantee all rights of tenancy by the curtesy and dower and homestead and other interests therein. WITNESS our hands and seals this second day of October, 1940.

Andreas S. Gudmundsson Seal  
 Elisabeth A. Gudmundsson Seal

I.R. Stamps  
 \$ .55  
 Cancelled

THE COMMONWEALTH OF MASSACHUSETTS

Plymouth, ss. Whitman, Mass., October 2nd, 1940. Then personally appeared the above named Andreas S. Gudmundsson and Elizabeth A. Gudmundsson and acknowledged the foregoing instrument to be their free act and deed, before me-

James T. Kirby Notary Public  
 My commission expires December 6, 1946.

Rec'd Feb. 10, 1942 at 9:00 A. M. & recorded.

IN THE DISTRICT COURT OF THE UNITED STATES  
 FOR THE DISTRICT OF MASSACHUSETTS

UNITED STATES OF AMERICA, )  
 Petitioner, )  
 v. )  
 29.71 ACRES OF LAND, MORE OR )  
 LESS, SITUATE IN THE TOWN OF )  
 HINGHAM, PLYMOUTH COUNTY, )  
 MASSACHUSETTS, MARY LEE )  
 LINCOLN, ET AL., )  
 Defendants. )

MISC. CIVIL NO. 6478

Lincoln  
 et al  
 to  
 U. S. of  
 America

JUDGMENT ON THE DECLARATION OF TAKING  
 (February 3, 1942.)

FORD, J. This cause coming on for hearing upon motion of Edmund J. Brandon, United States Attorney in and for the District of Massachusetts, and Robert H. Gallagher, Special Assistant to the United States Attorney in and for the said District, attorneys for the petitioner, herein, to enter a judgment on the declaration of taking filed herein and for an order fixing the date for the surrender of possession of the land herein described to the petitioner, and upon consideration thereof and of the petition and declaration of taking filed herein and the statutes in such case made and provided, and it appearing to the satisfaction of the Court; FIRST, that the United States of America is entitled to acquire property by condemnation under judicial process for the purposes as set forth and prayed for in said petition; SECOND, that the declaration of taking filed herein contains, or has annexed thereto a statement of the authority under which and the public use for which the lands hereinafter described are taken, a description of the said lands taken sufficient for the identification thereof, a statement of the estate or interest taken for the said public use, a plan showing the lands taken, and a statement of the sum of money estimated by the Acting Secretary of the Navy to be just compensation for the land taken in the total sum of \$54,026.00, and that said amount has been deposited into the registry of this Court for the use and benefit of the persons entitled thereto; THIRD, that the said declaration of taking filed herein contains a statement that the Acting Secretary of the Navy, the head of the acquiring agency, is of the

opinion that the ultimate award of just compensation will be within the limits prescribed by Congress as the price to be paid therefor; NOW THEREFORE, it is ORDERED, ADJUDGED and DECREED that the title to the said land in fee simple absolute, including all improvements thereon and appurtenances thereunto, if any, vest in the United States of America upon the filing of the said declaration of taking and the depositing in the registry of this Court of the amount of estimated just compensation, which land is situate in the Town of Hingham, County of Plymouth, and the Commonwealth of Massachusetts, and more particularly described in Schedule "A" attached hereto, and that said land is deemed to be condemned and taken for the United States of America, and the right to just compensation for the property so taken is vested in the persons entitled thereto; and the amount of such just compensation shall be ascertained and awarded in this proceeding and established by judgment herein pursuant to law, and It is FURTHER ORDERED, ADJUDGED and DECREED that possession of the above-described property shall be surrendered to the United States of America and its duly authorized agents forthwith. It is FURTHER ORDERED that the United States Marshal be and he is hereby directed and instructed forthwith to serve an attested copy of this judgment upon any of the defendants now in possession of the above-described premises, or if no such defendants are found in actual possession of said premises, then he is ordered to post such attested copy at a conspicuous place upon said premises and forthwith make due return of said service to this Court. This cause is held open for such further and other orders, judgments and decrees as may be necessary in the premises. Entered this 3rd day of February, 1942, at Boston, Massachusetts.

BY THE COURT,

Mary G. Traverse Deputy Clerk

Feb. 3 '42

F.J.W.F.

D.J.

3.15 P.M.

A true copy of the Judgment on the Declaration of Taking with Schedule "A" attached thereto:

ATTEST: James S. Allen Clerk.

Seal

SCHEDULE "A"  
PARCEL NO. 1

DESCRIPTION

Beginning at a point on the South side of Beal Street approximately 290 feet East of the center line intersection of Beal Street and Lincoln Street, in the Town of Hingham; thence running North 81° 21' 00" East along Beal Street, a distance of 4.52 feet to the beginning of a curve of 400.10 feet radius; thence by said curve in a Southeasterly direction a distance of 271.15 feet; thence South 59° 49' 11" East a distance of 350.36'; thence by land formerly of Seth Sprague and Robert H. Birchmore in a Southwesterly direction 339.50 feet; thence by land formerly of Seth Sprague and Robert H. Birchmore in a Northwesterly direction a distance of 52.69 feet; thence by land formerly of the Town of Hingham, North 60° 40' 07" West a distance of 478.58 feet; thence by land formerly of the Town of Hingham North 16° 37' 03" East a distance of 261.45 feet to the point of beginning; containing 4.35 acres of land, more or less.

Name of purported owner - Mary Lee Lincoln

Address of purported owner - c/o Henry C. Shallis, 115 South Pleasant Street, Hingham, Massachusetts

DESCRIPTION

PARCEL NO. 2

Beginning at a point on the Southwest side of Beal Street approximately 915 feet East of the center line intersection of Beal Street and Lincoln Street in the Town of Hingham; thence along said Beal Street South 59° 52' 34" East a distance of 194.97 feet; thence South 58° 18' 11" East a distance of 6.15 feet; thence South 59° 11' 12" East a distance of 62.70 feet; thence South 59° 50' 03" East a distance of 146.47'; thence South 60° 10' 52" East a distance of 89.86 feet; thence South 60° 02' 26" East a distance of 97.10 feet; thence in a Southeasterly direction by land formerly of the Town of Hingham a distance of 325.51 feet; thence in a Northwesterly direction by land formerly of Town of Hingham a distance of 351.15'; thence in a Southwesterly direction by land for-

merly of the Town of Hingham a distance of 391.94 feet; thence in a Northwesterly direction by land formerly of Town of Hingham a distance of 324.91 feet; thence in a Northeasterly direction by land formerly of Town of Hingham a distance of 437.06 feet; thence in a Southeasterly direction by land formerly of Mary Lee Lincoln a distance of 52.69 feet; thence in a Northeasterly direction by land formerly of Mary Lee Lincoln a distance of 339.50 feet to the point of beginning; containing 7.77 acres of land more or less. Names of purported owners - Seth Sprague and Robert H. Birchmore Address of purported owners - c/o Seth Sprague, Hingham Trust Company, Hingham, Massachusetts.

PARCEL NO. 3DESCRIPTION

Beginning at a stone monument on the South side of Beal Street approximately 120 feet East of the center line intersection of Beal Street and Lincoln Street, in the Town of Hingham; thence running North 81° 21' 00" East along Beal Street; a distance of 169.50 feet; thence by land formerly of Mary Lee Lincoln South 16° 37' 03" West a distance of 261.45 feet; thence by land formerly of Mary Lee Lincoln South 60° 40' 07" East a distance of 478.56 feet; thence by land formerly of Seth Sprague and Robert H. Birchmore in a Southwesterly direction 437.06 feet; thence by land formerly of Seth Sprague and Robert H. Birchmore in a Southeasterly direction 324.91 feet; thence by land formerly of Seth Sprague and Robert H. Birchmore in a Northeasterly direction a distance of 391.94 feet; thence by land formerly of Seth Sprague and Robert H. Birchmore in a Southeasterly direction a distance of 351.15; thence by land formerly of Seth Sprague and Robert H. Birchmore in a Northeasterly direction a distance of 325.51 feet to a point on the Southwesterly side of Beal Street; thence by said Beal Street South 59° 52' 50" East a distance of 217.36 feet to a stone monument; thence from here on by land of the United States of America South 13° 32' 17" West a distance of 172.46 feet; thence South 13° 33' 35" West a distance of 170.27 feet; thence South 19° 37' 26" West a distance of 146.14 feet; thence South 20° 24' 35" West a distance of 240.01 feet; thence South 32° 07' 12" West a distance of 297.93 feet; thence South 32° 25' 56" West a distance of 214.54 feet; thence North 32° 18' 58" West a distance of 777.57 feet to a stone monument; thence North 49° 13' 14" West a distance of 364.33 feet; thence North 28° 39' 36" West a distance of 202.10 feet; thence North 28° 12' 41" East a distance of 122.35; thence North 60° 55' 40" West a distance of 321.72 feet to a stone monument; thence North 8° 11' 00" East a distance of 405.44 feet to a stone monument at the point of beginning; containing 17.59 acres of land, more or less.

Name of purported owner - Town of Hingham

Address of purported owner - Board of Selectmen, Town Hall,  
Hingham, Massachusetts.

Rec'd Feb. 10, 1942 at 9:00 A. M. & recorded.

## KNOW ALL MEN BY THESE PRESENTS

That the FARRAGUT CO-OPERATIVE BANK, the mortgagee named in a certain Mortgage Deed given by THOMAS W. COX, dated June 22, 1937, and recorded with Plymouth County Reg. Deeds, Book 1732, Pages 99-100, acknowledges that it has received full payment and satisfaction of said Mortgage; and in consideration thereof, hereby cancels and DISCHARGES the same. IN WITNESS WHEREOF, said Bank has caused its corporate seal to be hereto affixed, and these presents signed in its name and behalf by Willis Dresser, its Treasurer, this sixteenth day of December 1941.

Farragut  
Coop. Bk.  
to  
Cox

See  
Bk. 1732  
Pg. 99

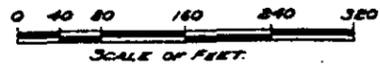
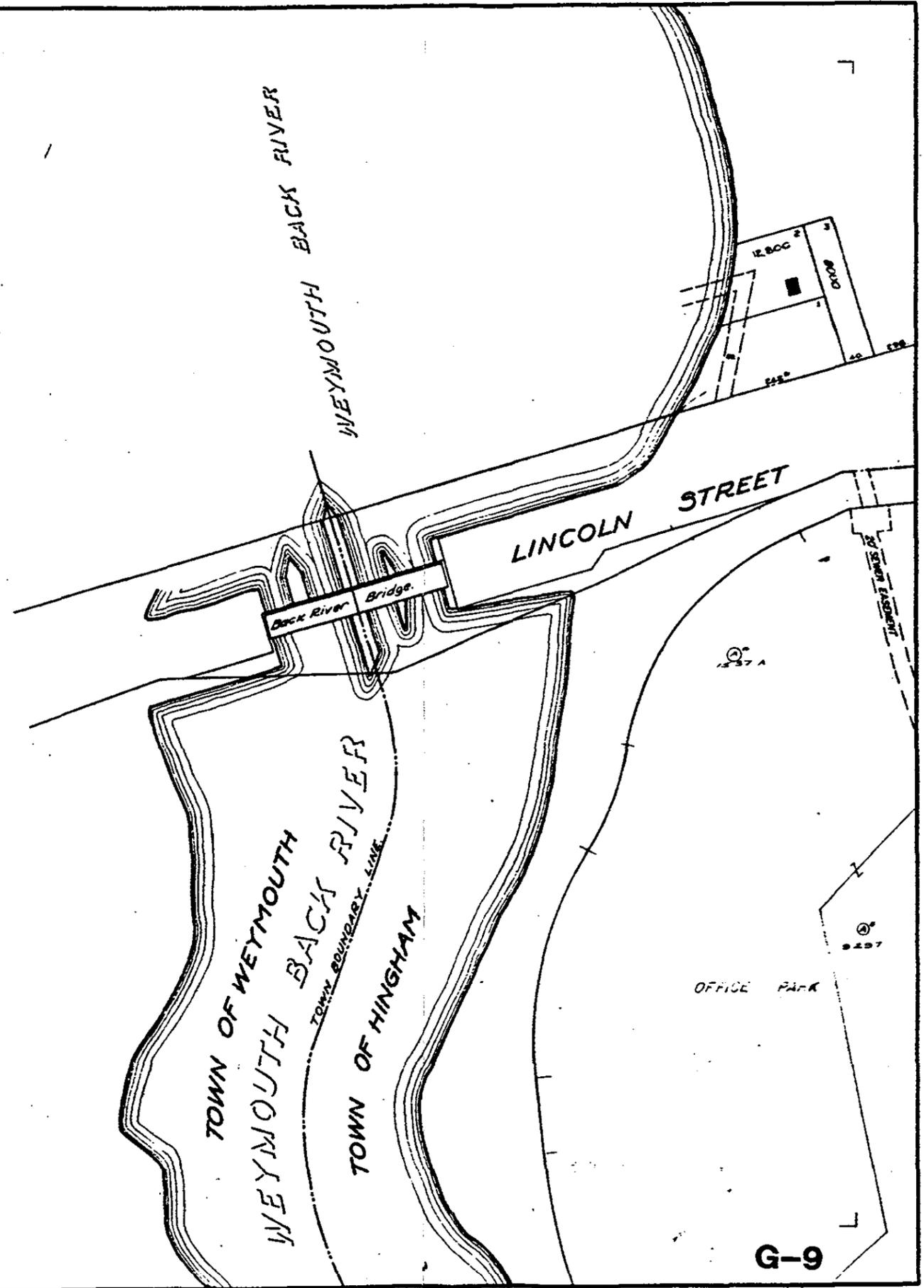
FARRAGUT CO-OPERATIVE BANK  
Corporate Seal By Willis Dresser Treasurer

## COMMONWEALTH OF MASSACHUSETTS

SUFFOLK, ss. December 16, 1941. Then personally appeared the above-named Willis Dresser and acknowledged the above instrument to be the free act and deed of the Farragut Co-operative Bank, before me - Seal Greta Dahlgren Notary Public  
My commission expires December 18, 1942.

Rec'd Feb. 10, 1942 at 9:00 A. M. & recorded.

No SHEET

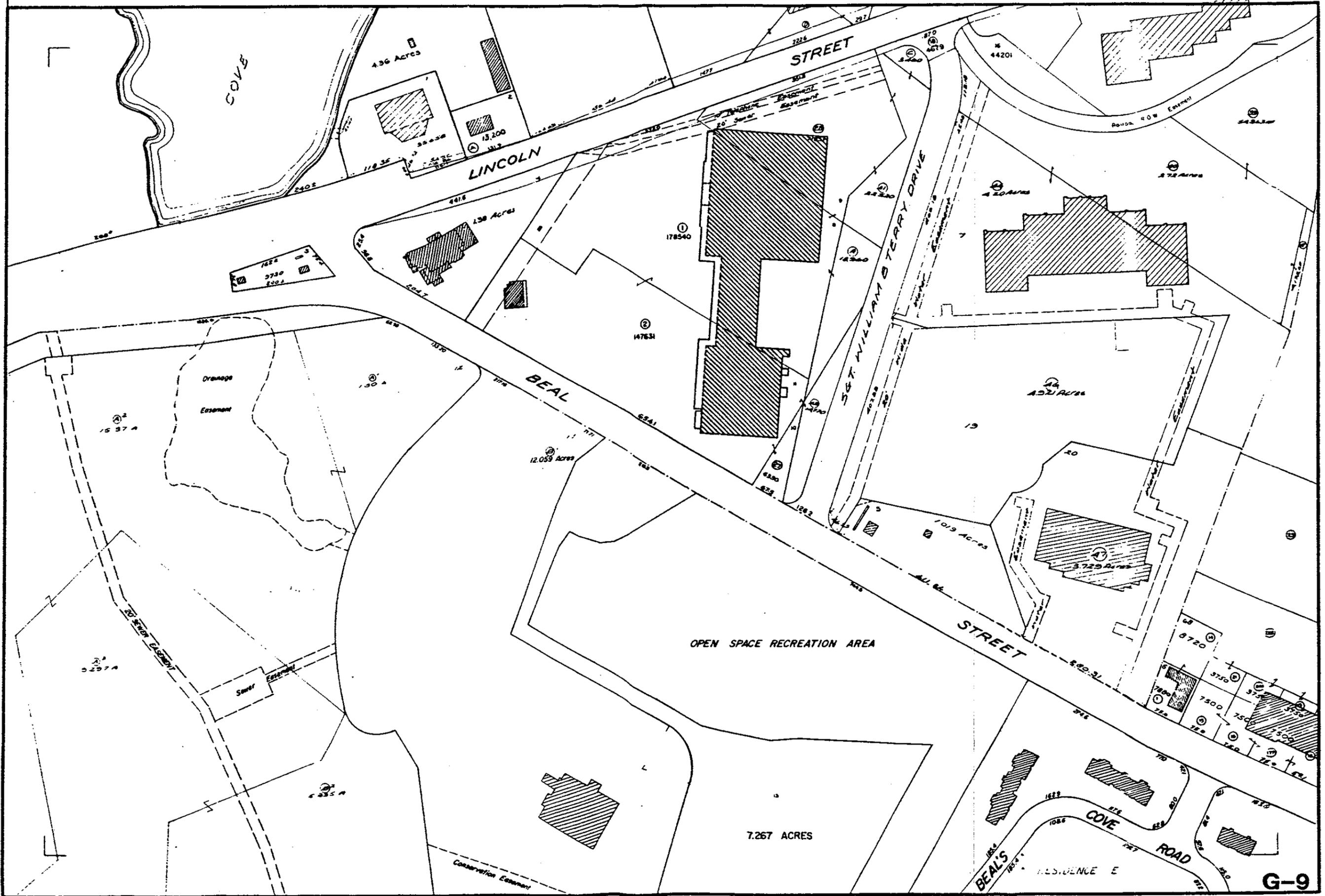


8/25

11/25

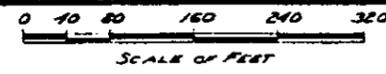
SEE SHEET No. 45

SEE SHEET No. 47



46

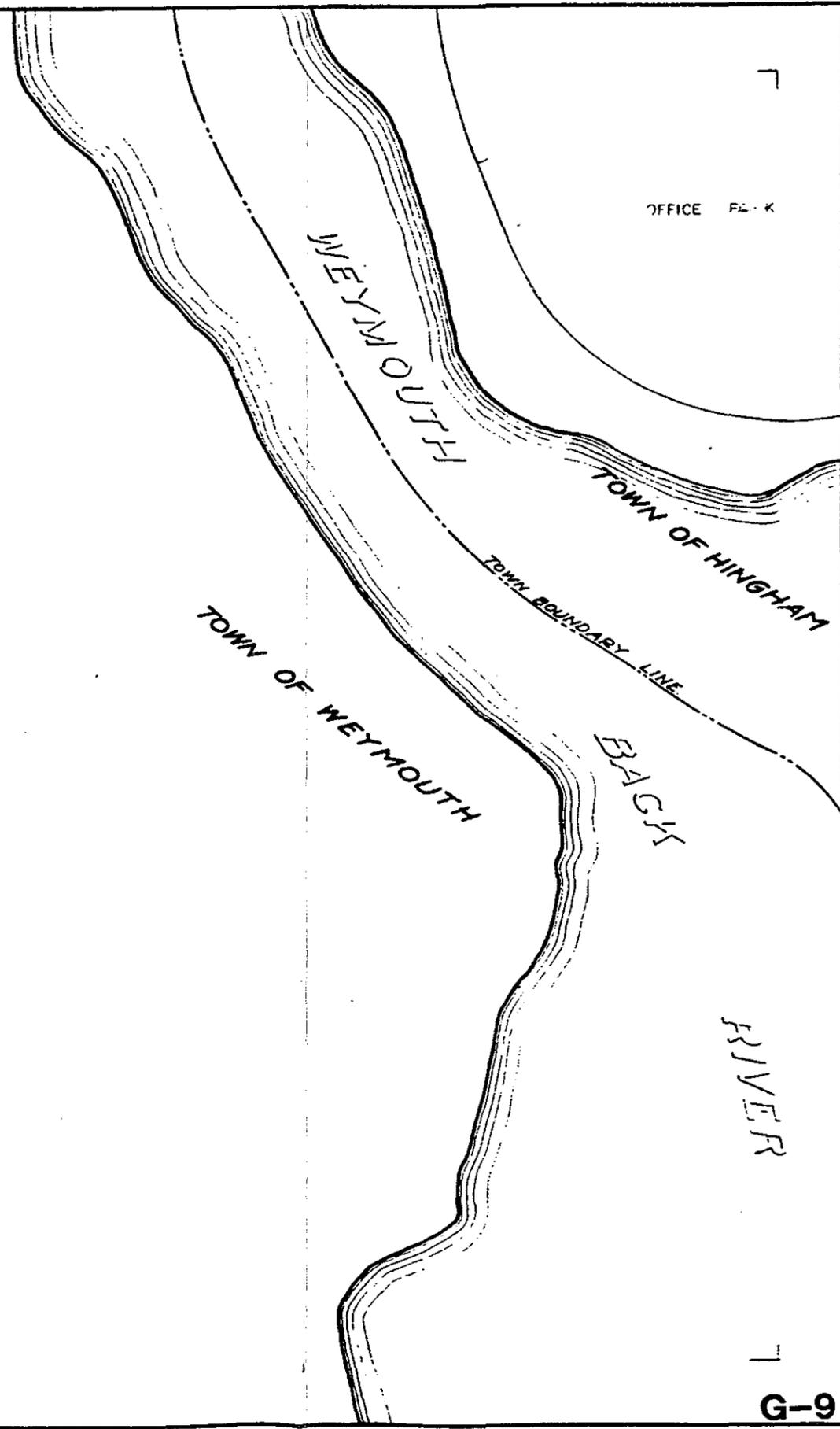
G-9



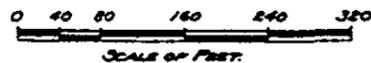
SEE SHEET No. 57

From the office of Lewis W. Perkins, Engr.  
December 28, 1942. Hingham, Mass.

No SHEET.



SEE SHEET No. 57.

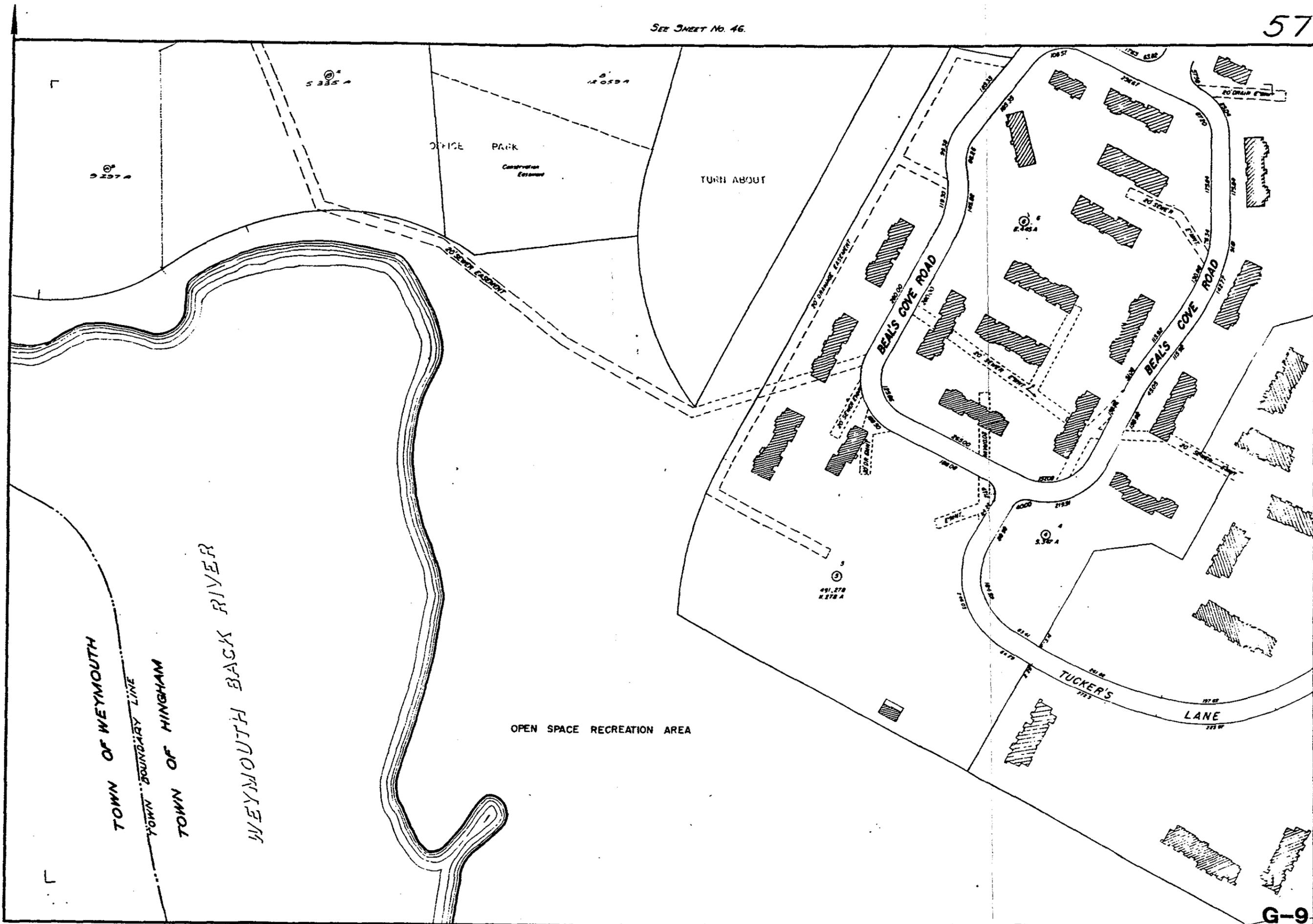


No SHEET.

From the office of Lewis W. Parsons, Esq.  
November 22, 1937. Hingham, Mass.

SEE SHEET No. 56.

SEE SHEET No. 58.



OPEN SPACE RECREATION AREA

TOWN OF WEYMOUTH

TOWN BOUNDARY LINE

TOWN OF HINGHAM

WEYMOUTH BACK RIVER

OFFICE PARK  
Construction Easement

TURN ABOUT

BEALS COVE ROAD

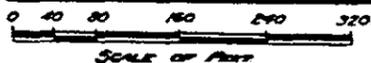
BEALS COVE ROAD

TUCKER'S LANE

491.278  
491.279

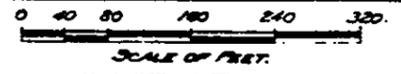
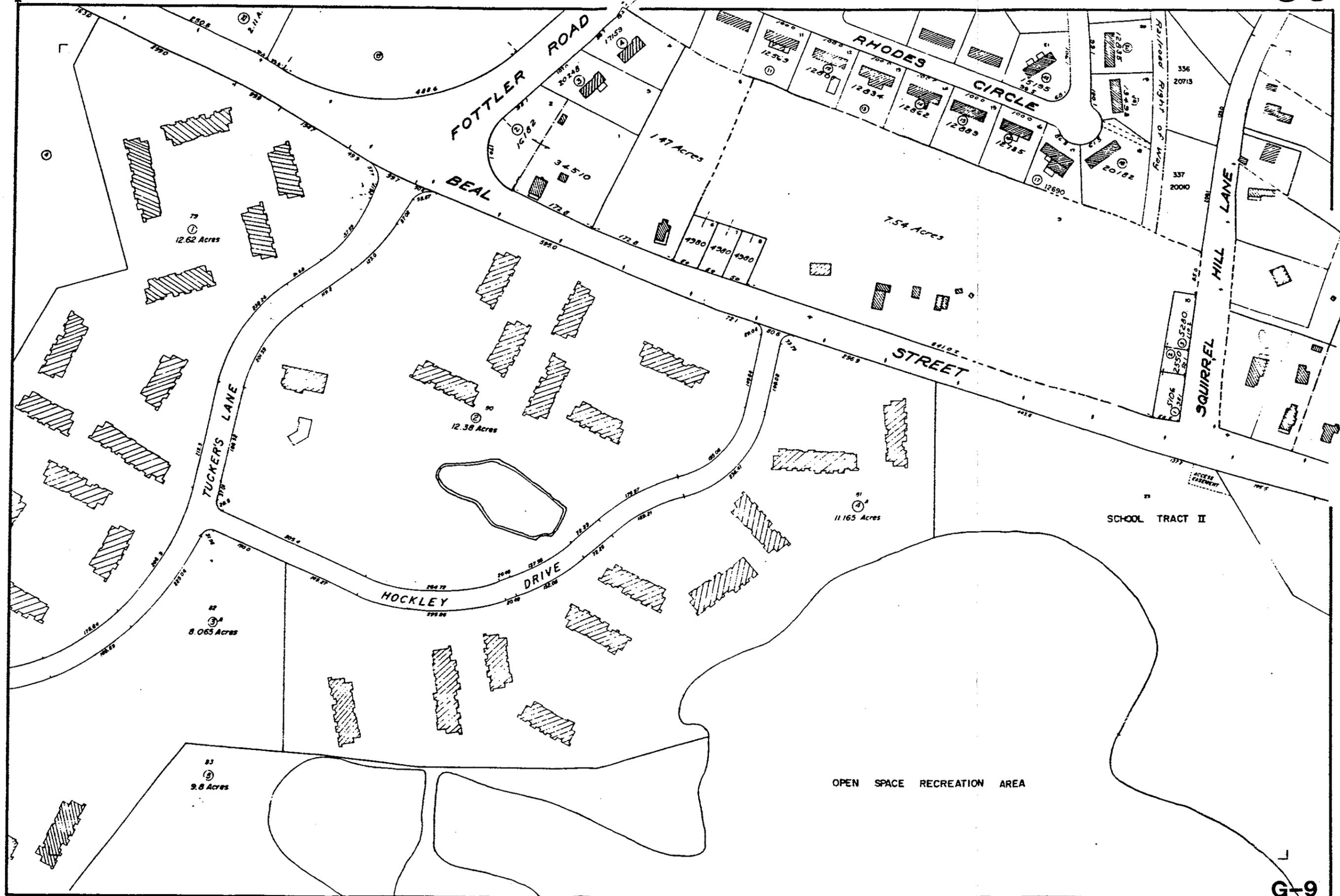
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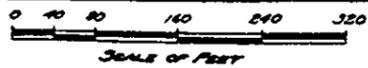
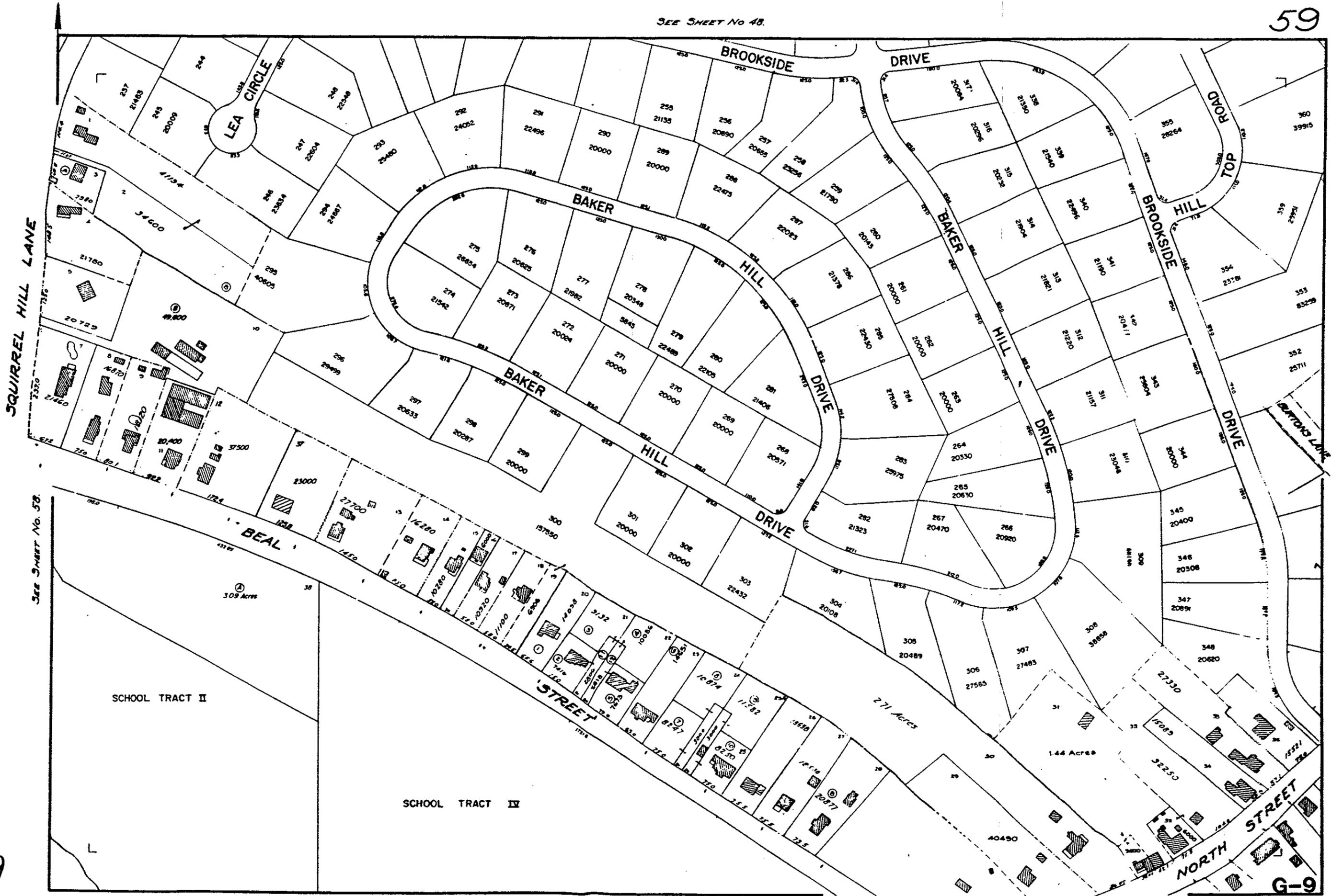
SEE SHEET No. 47.

SEE SHEET No. 57.



SEE SHEET No. 60.

From the office of Lewis W. Perkins, Engr. NOVEMBER 23, 1937. Hingham, Mass.



SEE SHEET No. 57.

RESIDENCE - E

OPEN SPACE RECREATION AREA

WEYMOUTH

BLANCH

TOWN OF WEYMOUTH

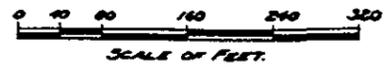
TOWN OF HINGHAM

RIVER

BOUNDARY LINE

NO SHEET.

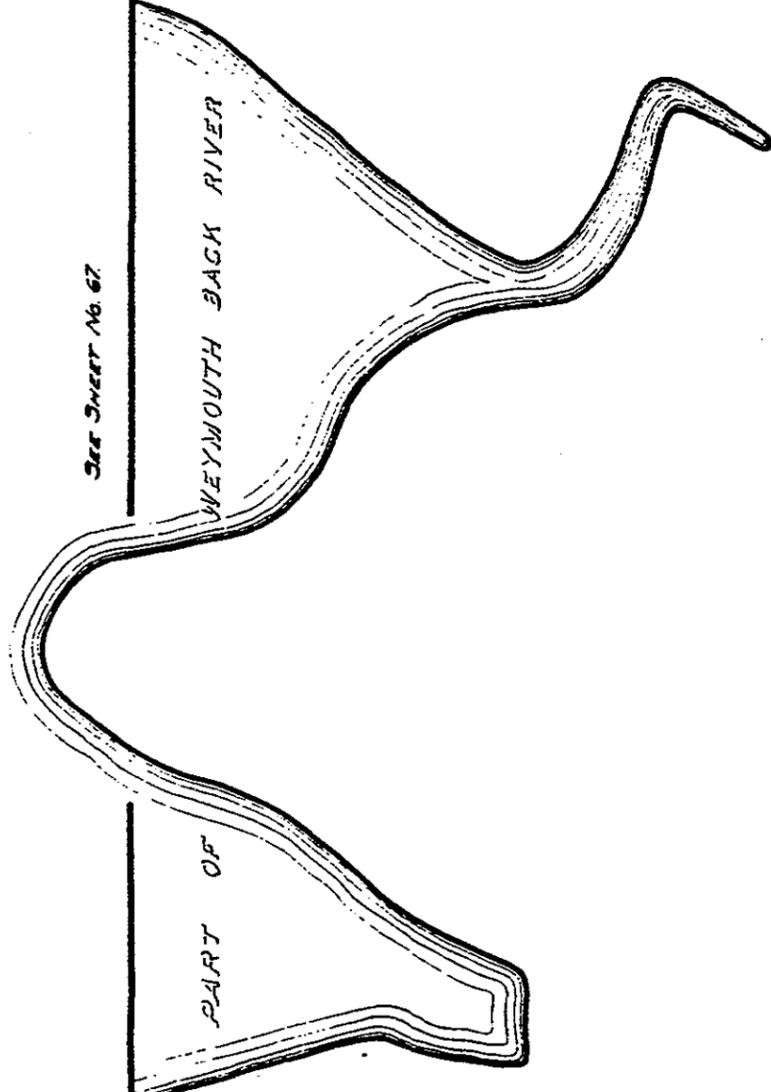
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G-9

From the office of LEWIS W. PERKINS, Engineer  
NOVEMBER 2, 1937. HINGHAM, MASS.

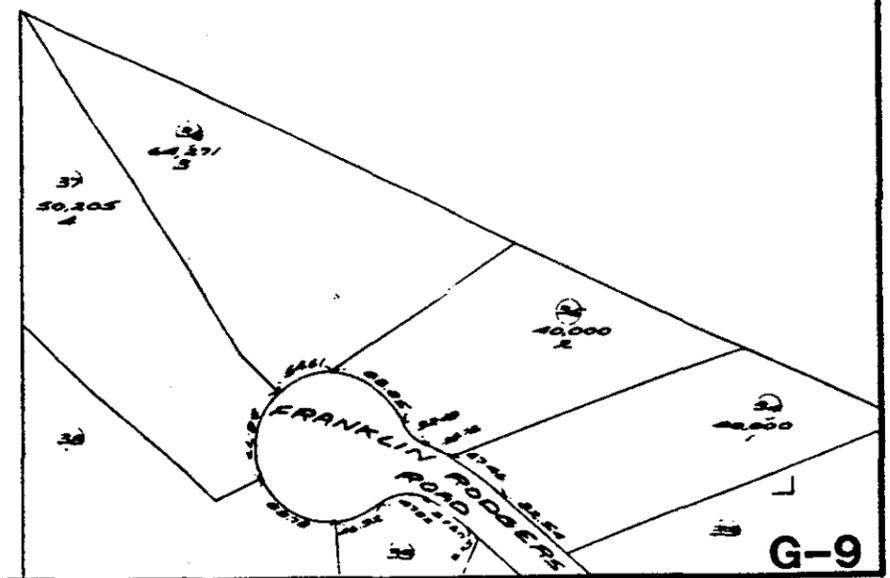


OPEN SPACE RECREATION AREA

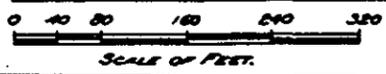
SEE SHEET No. 67

WEYMOUTH BACK RIVER

PART OF



SEE SHEET No. 69.



SEE SHEET No. 77

FROM THE OFFICE OF LEWIS W. PERKINS, ENGR.  
NOVEMBER 27, 1937. HINGHAM, MASS.

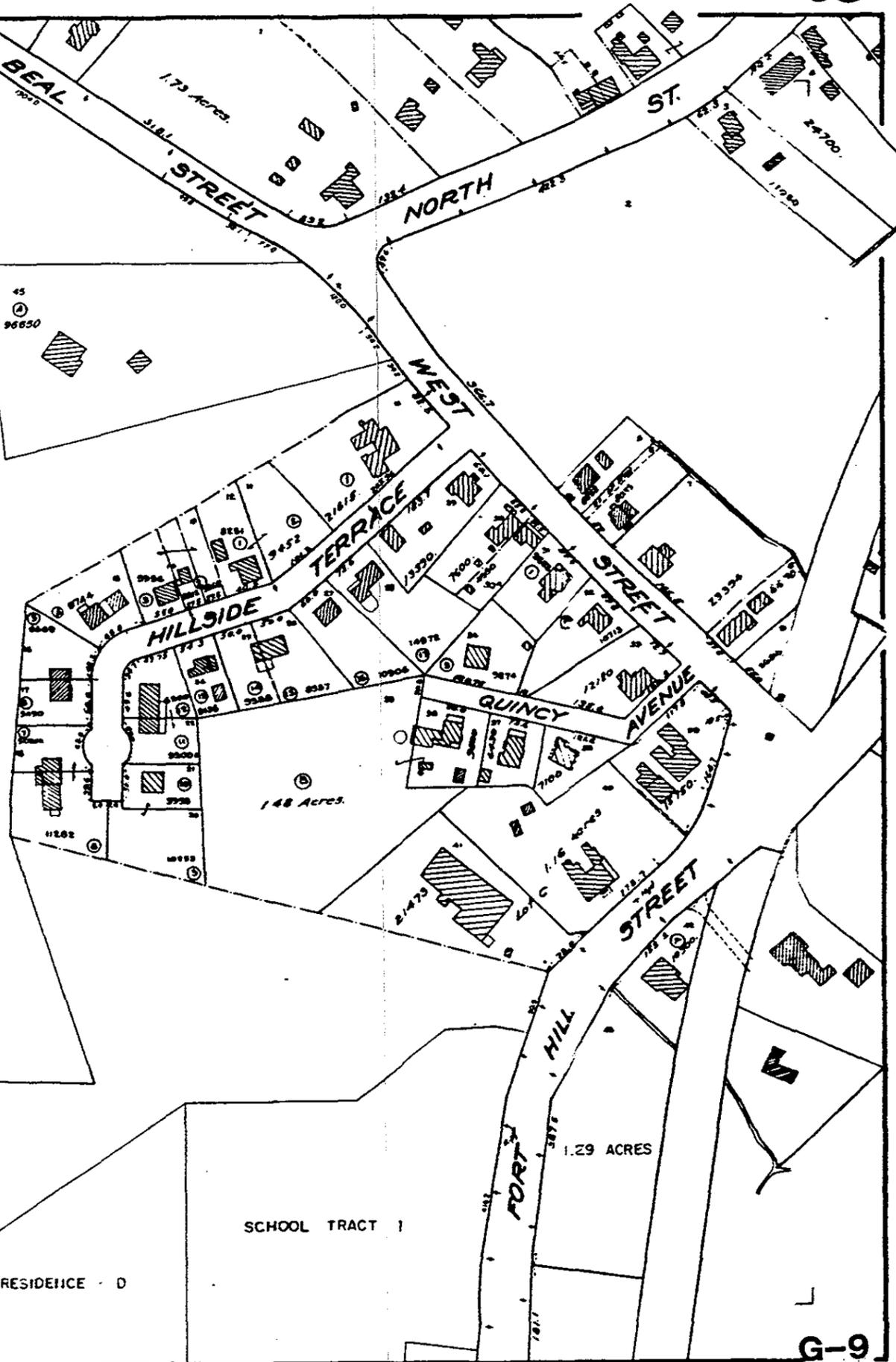
SCHOOL TRACT II

SCHOOL TRACT IV  
39.69 ACRES

SCHOOL TRACT I

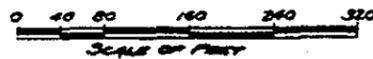
OPEN SPACE RECREATION AREA

RESIDENCE - D



SEE SHEET No. 68.

SEE SHEET No. 70



SEE SHEET No. 67.

76

RIVER

BAGS

WHILE ISLAND

TOWN OF WEYMOUTH

TOWN OF HINGHAM

TOWN BOUNDARY LINE

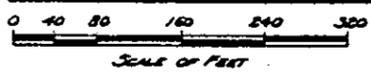
WEYMOUTH

OPEN SPACE RECREATION AREA

NO SHEET

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76



SEE SHEET No. 85.

FROM THE OFFICE OF LEWIS W. PERKINS, ENGR.  
NOVEMBER 27, 1937. HINGHAM, MASS.

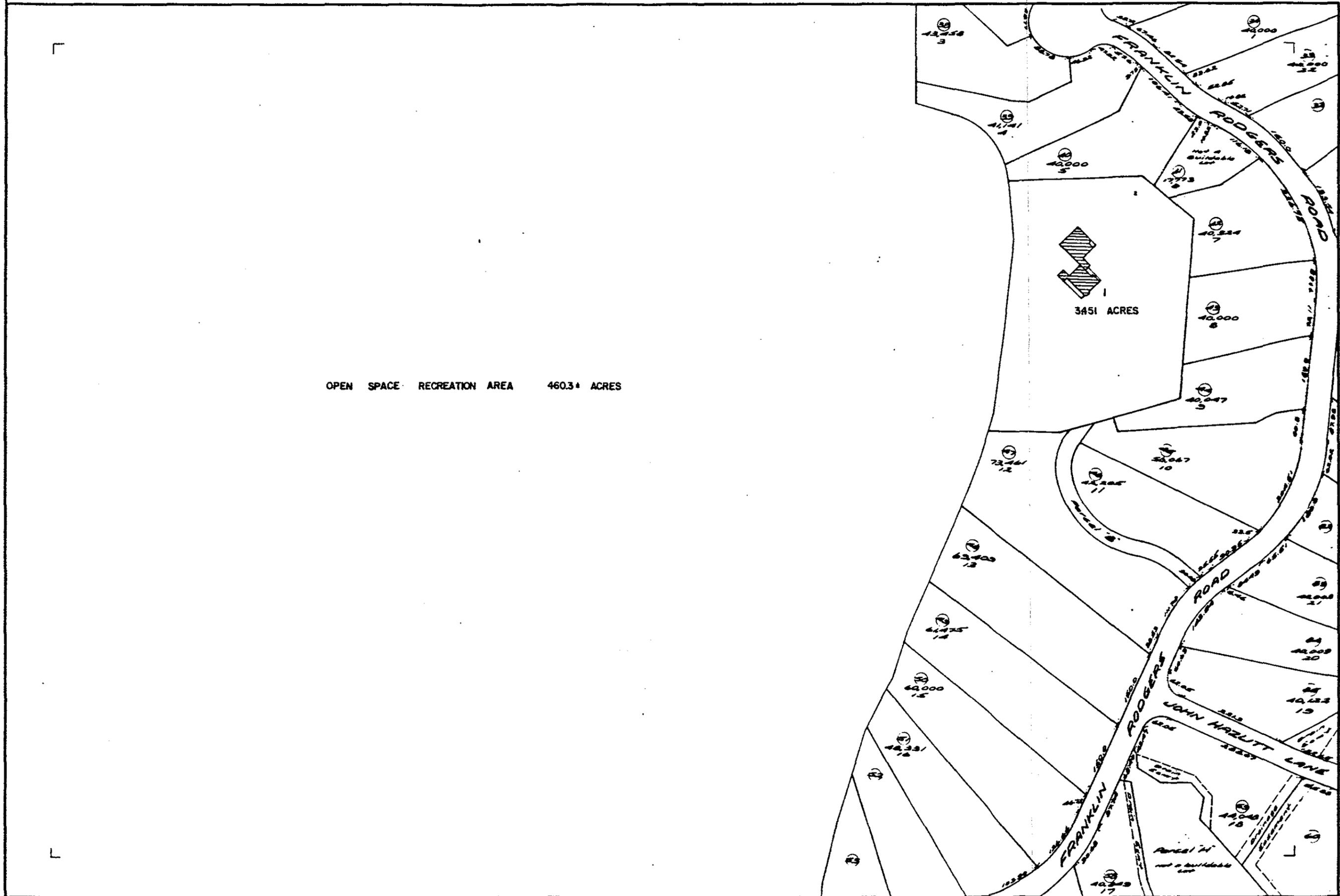
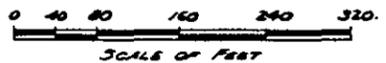
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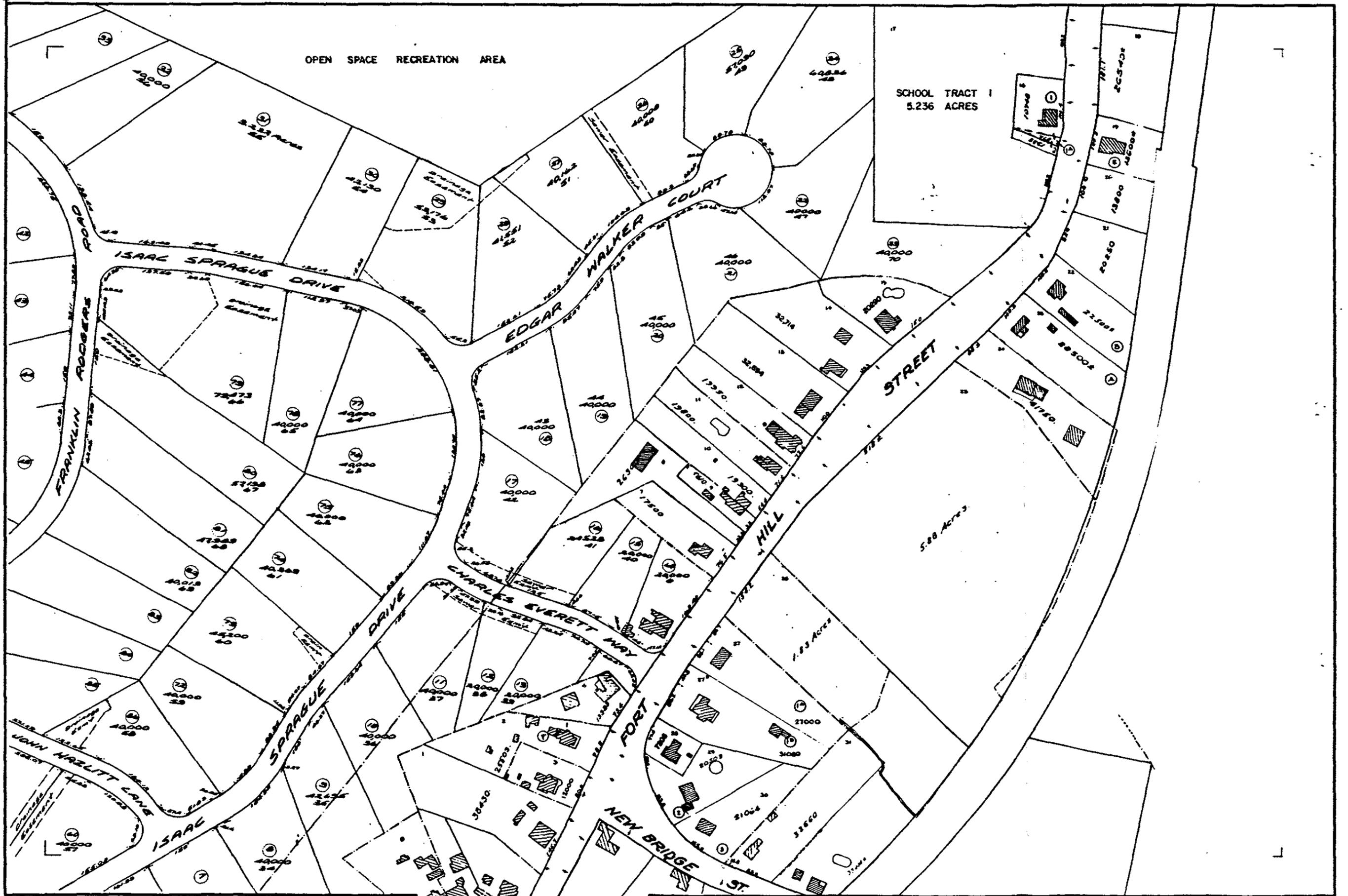
OPEN SPACE RECREATION AREA 460.3+ ACRES

3451 ACRES



OPEN SPACE RECREATION AREA

SCHOOL TRACT I  
5.236 ACRES



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SEE SHEET No. 87.

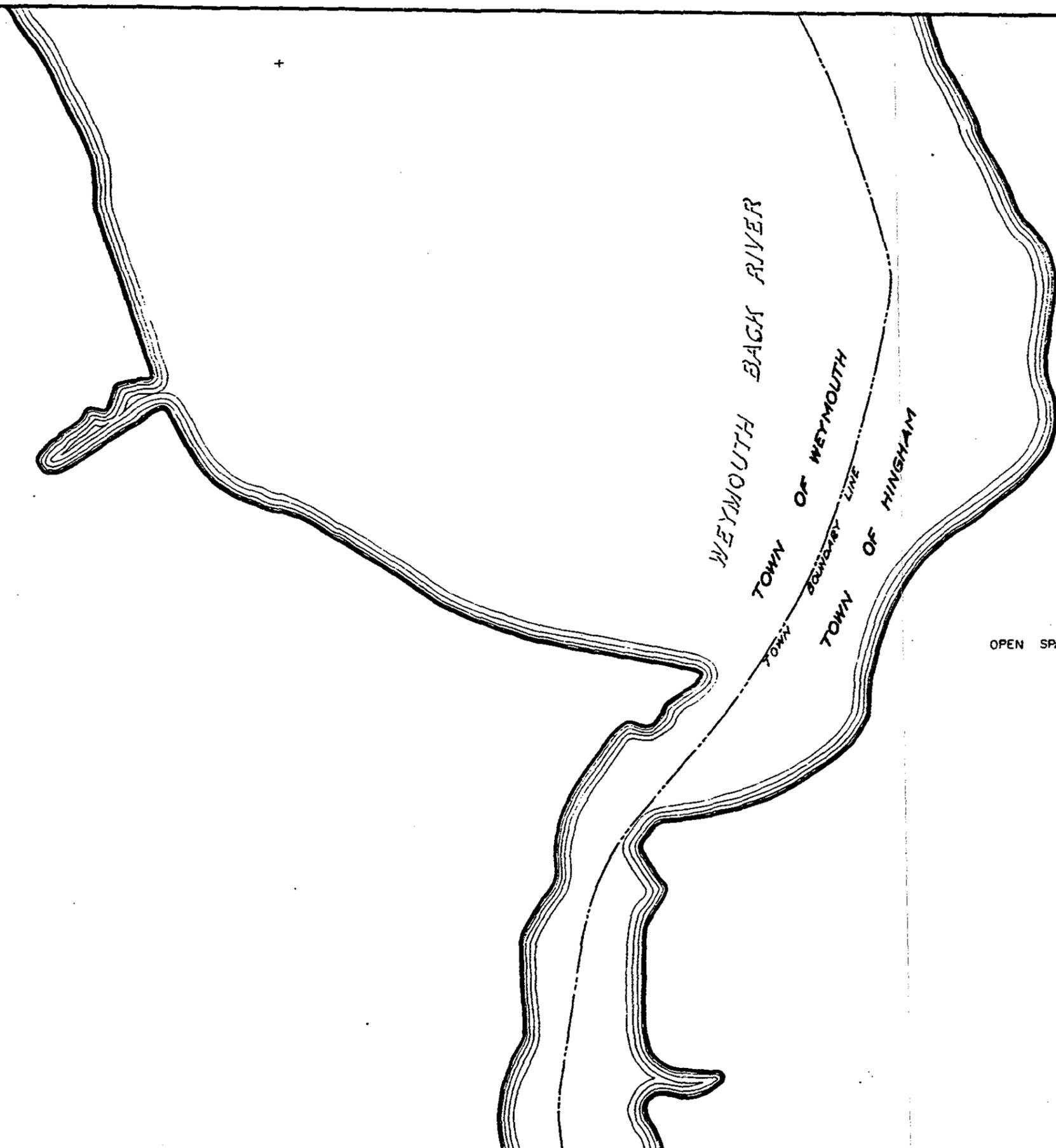
From the office of Lewis W. Perkins, Eng'r.  
DECEMBER 2, 1937. HINGHAM MASS

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SCALE OF FEET

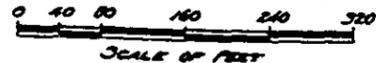
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No SHEET



85



SEE SHEET No. 95.

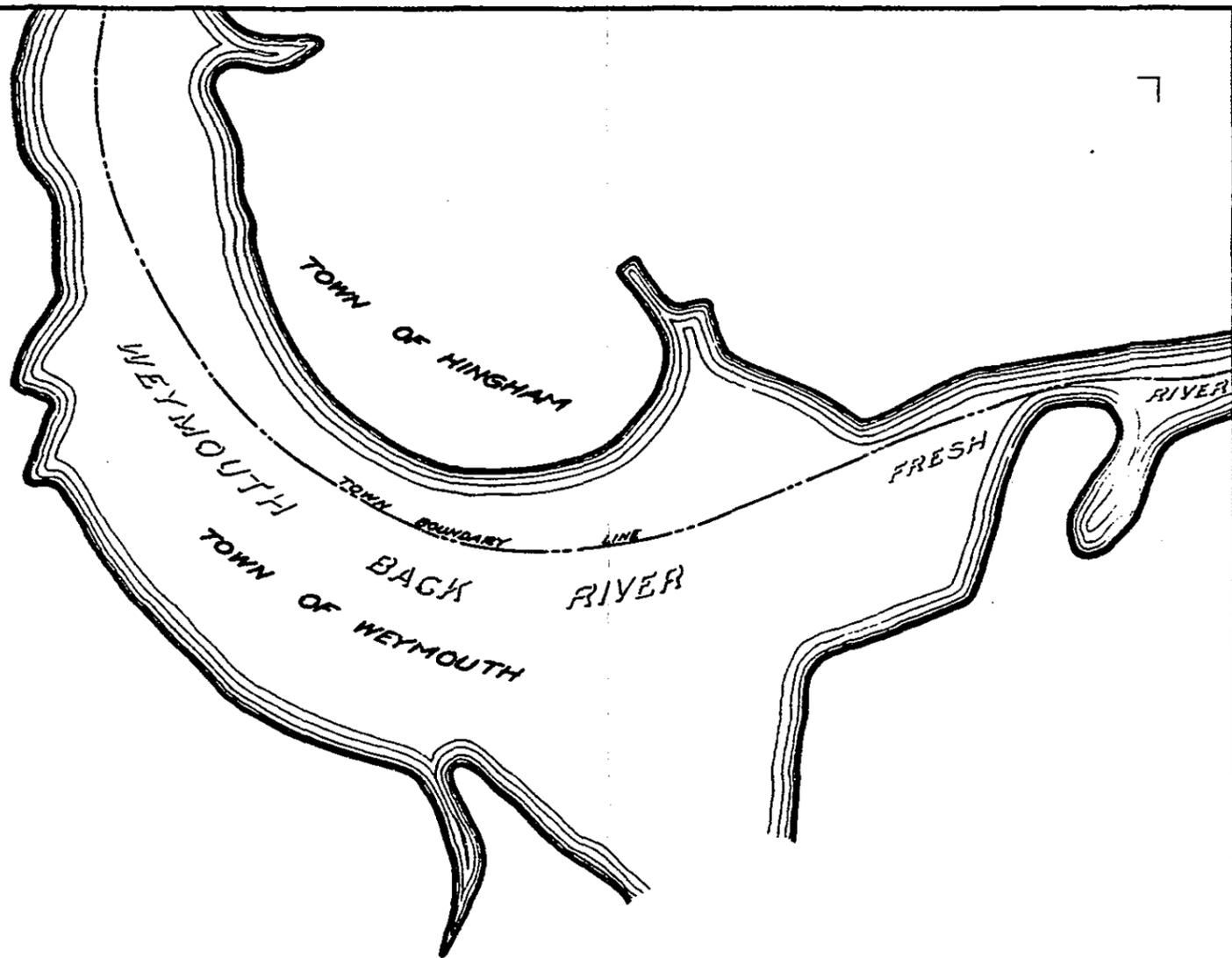
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From the office of Lewis W. Perkins, Eng.  
NOVEMBER 29, 1937



SEE SHEET No. 85.

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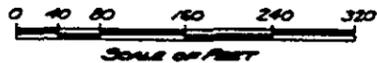


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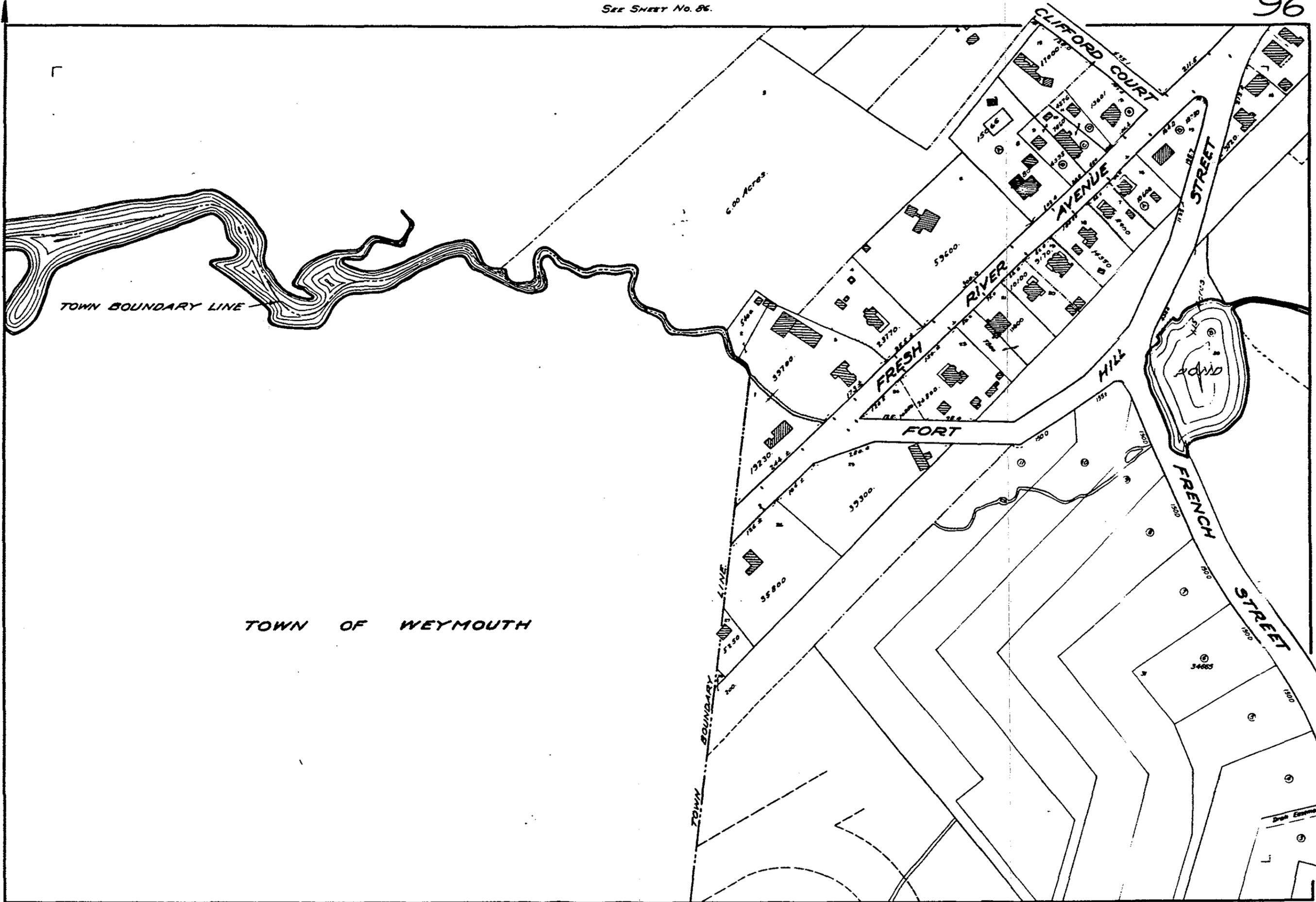
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No Sheet

From the office of LEWIS W. PERRINS, Engr.  
NOVEMBER 23, 1937. Hingham, Mass.



SEE SHEET No. 96

SEE SHEET No. 97

TOWN OF WEYMOUTH

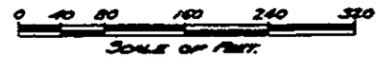
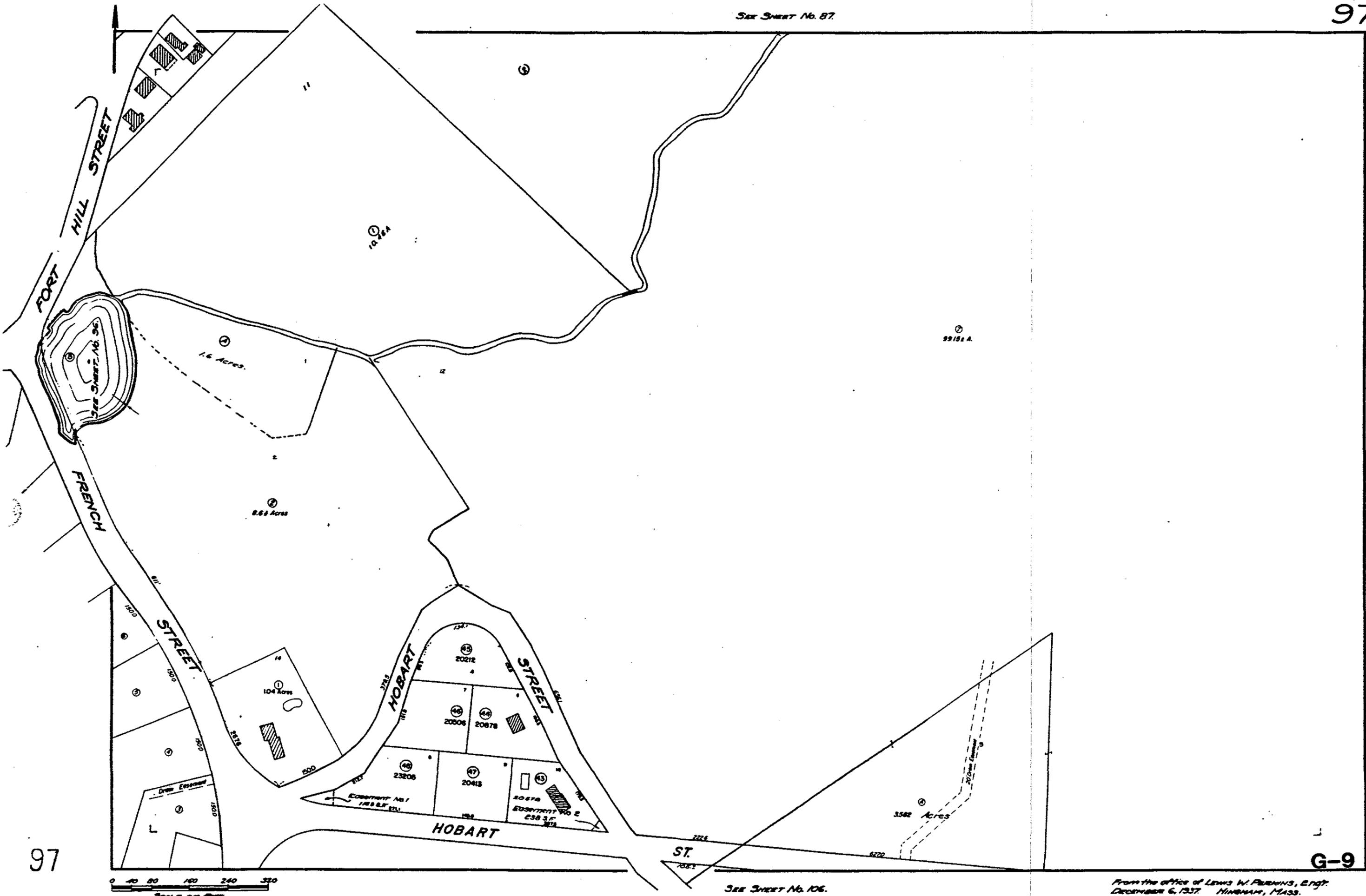
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SCALE OF FEET.

SEE SHEET No. 105.

From the office of LEWIS W. PERMINS, Engr.  
DECEMBER 3, 1937. NINGHAM, MASS.

G-9

SEE SHEET No. 87.



SEE SHEET No. 106.

From the office of Lewis W. Purnins, Engr.  
December 6, 1937. NINGHAM, MASS.

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX H  
NEWSPAPERS AND JOURNALS

APPENDIX H  
NEWSPAPERS AND JOURNALS

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- H-3 Shot and Shell, 13 June 1952, Depot Products Displayed (B-33).
- H-4 Shot and Shell, March 1954, Souvenir Issue (B-34).
- H-5 Boston Traveler, 13 April 1966, Hingham Officials Fight Proposed Navy Housing (B-35).
- H-6 Boston Globe, 15 April 1966, Naval Depot Row may go to Top (B-36).

THURSDAY, APRIL 23, 1914

BOSTON POST,

# HINGHAM MAGAZINE WORKING OVERTIME

## Fills Shortages in Ammunition on Four Battleships at Charlestown Within Two Days

The immense value of the United States naval magazine at Hingham, established three years ago, was proven when in only two days it was able to fill the shortage in ordnance on the four big battleships in the Charlestown navy yard, besides sending additional ammunition to the New Jersey, now in Southern waters.

In order to accomplish this, the 100 odd men employed in the great powder and ordnance works worked overtime, and the orders were thus filled without the least confusion. The workmen ordinarily start at 7:45 and quit at 4:15, but Tuesday night they worked until 9 o'clock.

### DAY AHEAD OF SCHEDULE

The thousands of rounds of ammunition demanded by the Virginia, the Nebraska and the Georgia were sent yesterday morning—the work actually being done a day ahead of schedule. The ships which were expected to sail tomorrow will sail today, and to make sure the work was pushed rather than have it pile up at the last moment.

The inspector of ordnance in charge, Lieutenant-Commander A. W. Marshall, with his two chief gunners, J. G. Niklas and Franklin Helms, have taken no rest these last two days, and the magazine has been busier since Monday than at any time in its existence.

The powerful engine, run for safety's sake by compressed air, has hauled car after car of projectiles, each in its "sling," ready for use, and has deposited them on the government wharf at the further end of the big two-mile grounds of the magazine, from where they have been sent to the ships.

### Carry Much Ammunition

The Virginia will carry a large supply of ammunition for the New Jersey, now in Mexican ports. So great is the capacity of a dreadnought of the Virginia type that she will scarcely feel, by being cramped, the additional amount of shells which she is carrying.

In addition, one of the Charlestown battleships has been supplied by the

Hingham magazine with an additional amount of revolvers and rifle ammunition. This ammunition the magazine has in storage in immense quantities, and the delivery of a lot of it to the ship was simply in the nature of an additional emergency supply.

Lieutenant-Commander Marshall, who, though a Texan, has made his home in Quincy since being placed in charge of the magazine, and also assigned to certain government inspection duties at the Fore River yards, said yesterday: "We finished our needed supplies for the battleships now stationed at Charlestown on Tuesday night at 9 o'clock, preferring to work a little overtime rather than carry the work over to another day."

"Today we are simply doing the routine work of the magazine, but we are using our full complement of 100 men. The advance in the day of the sailing of the ships did not in the least embarrass us. The facilities here, of course, are almost unlimited for the supplying of the stations at Charlestown and Portsmouth, which look to us for their necessary supplies."

"The Virginia will carry extra ammunition for the New Jersey with her, and one of the ships has been given a large amount of small-arm ammunition, of which we have plenty here, of course."

"These have been very busy days here, but that is just what we are here for. As soon as the orders for rounds of ammunition came to us, we filled the orders and sent them off, and we were able to do the whole thing in two days. The battleships at Charlestown are now carrying their required amount of ammunition, and are fully prepared to do their work."

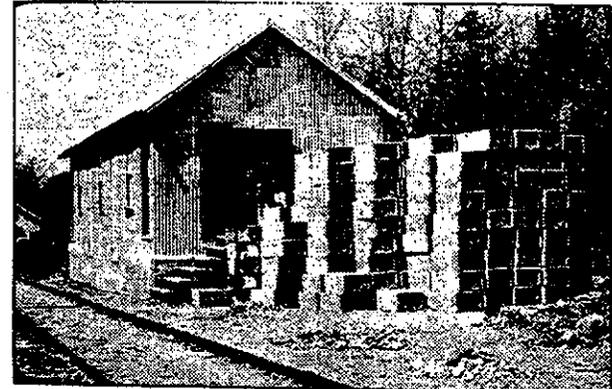
The magazine's workshops, built entirely of concrete, and constantly watched over by the guard of 20 marines stationed at the barracks within the grounds, were yesterday, notwithstanding the end of the rush, beehives of industry.

The filling room, where the shells are being filled with Uncle Sam's most deadly explosive, used in his great projectiles, the famous "compound D"; the storage houses, the various concrete buildings devoted to the manufacturing of the shells, were all filled with workmen, who relaxed little during the day in their work.

The supply now being put in is that known as "routine," but it is the maximum routine output of the magazine, and there will be no let-up in the amount.



SOME OF THE PROJECTILES WHICH WERE SHIPPED FROM THE ARSENAL AT HINGHAM TO THE BATTLESHIP VIRGINIA AT THE CHARLESTOWN NAVY YARD.



CASES OF POWDER READY TO BE SHIPPED FROM THE HINGHAM ARSENAL TO THE MEN-OF-WAR AT CHARLESTOWN.

John C. Kelleher of Ordnance Shipping found the old clipping from the Boston Post shown above when he was helping a friend clean out an old New Hampshire farmhouse. You will remember that years ago housewives used to pad their rugs with newspapers renewing them during their spring and fall housecleaning. The good woman who placed the papers under that rug in April 1914, over 44 years ago, would probably turn over in her grave at the thought of anyone finding her tidy home so neglected.

The ammunition loading operation described in the clipping, was preparatory to the dispatch of the ships to Vera Cruz where the rest of the fleet were blockading that port. Mexico at that time was more or less in a state of civil war and early in April an American Navy shore party going about peaceful business in Tampico had been set upon and arrested. President Woodrow Wilson ordered the occupation

# Shell Casing Found In Hingham

HINGHAM — A loaded five-inch gun shell casing, without a projectile, from World War II has been recovered by the Naval Ordnance Team of the South Weymouth Naval Air Station after

it washed ashore last week in Bare Cove Park.

Several shell casings have been found along the bank of the Weymouth Back River at low tide, according to Mrs. Aline Hoelzel, co-chairman of the depot committee.

underwater inspection by a naval demolition team last year. The committee posted the area after the demolition experts said no diving should be permitted in the vicinity of the observation dock because of the danger of striking submerged objects in the Back River.

## — Inside Pages —

AN ATTORNEY for Joan Little says he had to appeal to racism and sexism to win her acquittal because those issues were the state's case against the black woman.  
Page 4

Three firemen have and others are a multiple that raced Oil Co. re-  
Page 10

we will state  
art

Arthur Pinel, a consultant for the depot committee, said today the casing was "dangerous."

Mrs. Hoelzel said the casings and other dangerous objects were dropped in the Back River when the park's observation dock was used to load ammunition on ships during World War II.

"Most of these casings have been in the water so long, it is probably safe enough," she said, "but, I am uneasy because we keep finding these shells."

The area has been posted for no swimming or diving following an

Although the dock was posted, youngsters as well as boating parties have continued to use this site for swimming.

Mrs. Hoelzel also was concerned about youngsters diving from the Route 3A bridge because of the danger that submerged objects could be carried to this area by the tides.

She urged swimmers to obey the signs as she said the Navy divers told the committee last year they did not know what kinds of things could still be down in the mud.

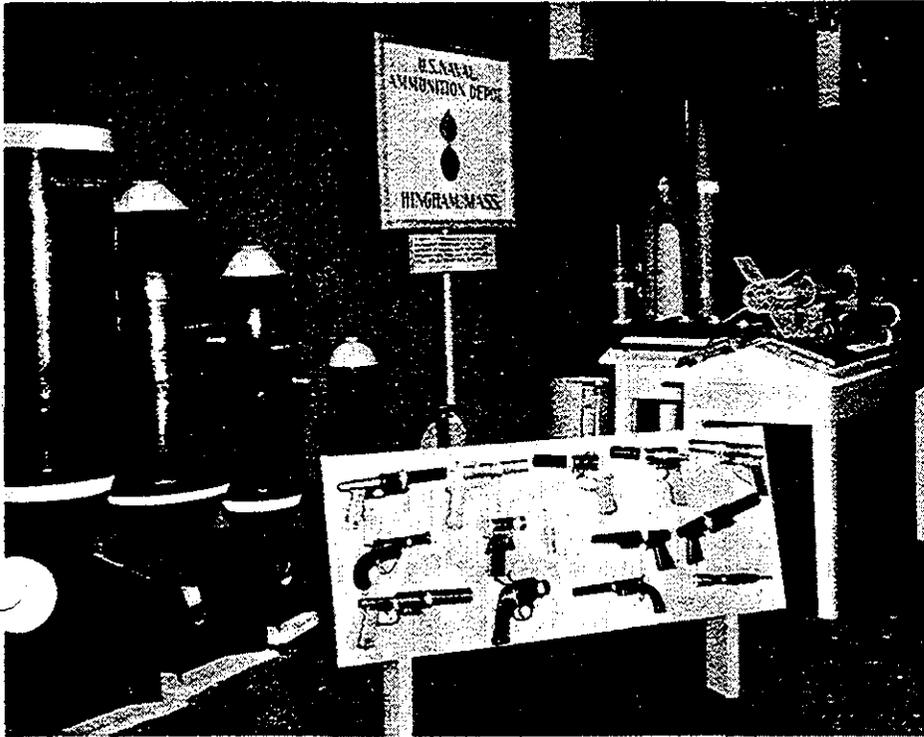
*"To the Man Behind the Guns from the Men and Women Behind Him."*

Vol. IV, No. 15

Hingham, Massachusetts

June 13, 1952

## SHOP COMMITTEES CONFER WITH C. O.



**DEPOT PRODUCTS DISPLAYED.** Shown above is exhibit representing some of the ordnance items produced at NAD Hingham. This display, one of several put on by the Depot on Armed Forces Day, was to be seen at the huge Union Industries Show at Mechanics Building in Boston.

Armed Forces Day, Friday, May 17th, was impressively observed by NAD Hingham. Some five hundred spectators witnessed a colorful ceremony at the parade ground in which the Commanding Officer presented decorations to two members of the Depot's Marine Barracks.

Much favorable comment greeted various displays of the activity's products; including one on Boston Common, in which some seventy ammunition items produced by the Depot were shown. A similar display containing 56 examples of the Depot's output was exhibited at the Union Industries Show at Mechanics Building.

Open house was the order of the day at the Reserve Training Armory, where still another display, this

one containing 100 items, was seen by approximately one thousand visitors. Also a feature at the Armory was the continuous showing of films depicting Korean warfare evacuation activities.

Representing NAD Hingham in the City of Brockton's celebration of the day was a platoon of marines led by Second Lieutenant John L. Woods.

Arrangements for the Depot's participation in the celebration of Armed Forces Day were ably carried out under the direction of Field Project Officer J. H. Campbell, Captain, USN; Wilbur R. Hunter, Commander, USN; David R. Howser, Commander, USN; Robert Colsky, Major, USMC and Richard E. Moody, Captain, USMC.

### MEETING FIRST OF SCHEDULED SERIES

Friday, May 9, marked the date of the first regular monthly meeting of Shop Committee members with the Commanding Officer. At this meeting, held in the conference room at the Administration Building, were representatives of each of the Shop Committees.

After congratulating the Committee members on having been selected to represent their respective Groups, the Commanding Officer expressed his intention of giving all possible aid in the solution of such problems as might come before these assemblies, which, he said, would henceforth be held monthly. They would, he said, be so scheduled as to permit the fullest possible participation by Committee members employed on either shift. These monthly meetings, said the Commanding Officer, would supplement regular semi-monthly conferences at which individual Shop Committees would meet with the heads of their respective organizational units.

The first topic discussed was the leave situation. The Commanding Officer explained that while the ideal set-up was one which would permit workers to take annual leave at times most convenient to them, as individuals, this was not always practicable. The most satisfactory arrangement, from the standpoint of efficient production, he said, was to spread annual leave out uniformly through the year. Such a plan had worked out quite satisfactorily here at the Depot during the past year, he added.

Discussed next was the working of the Shop Committee Plan. In response to a question from one of the Committee members concerning the procedure, the Commanding Officer explained that the main objective of

Continued on Page 6, First Column



# Shot and Shell

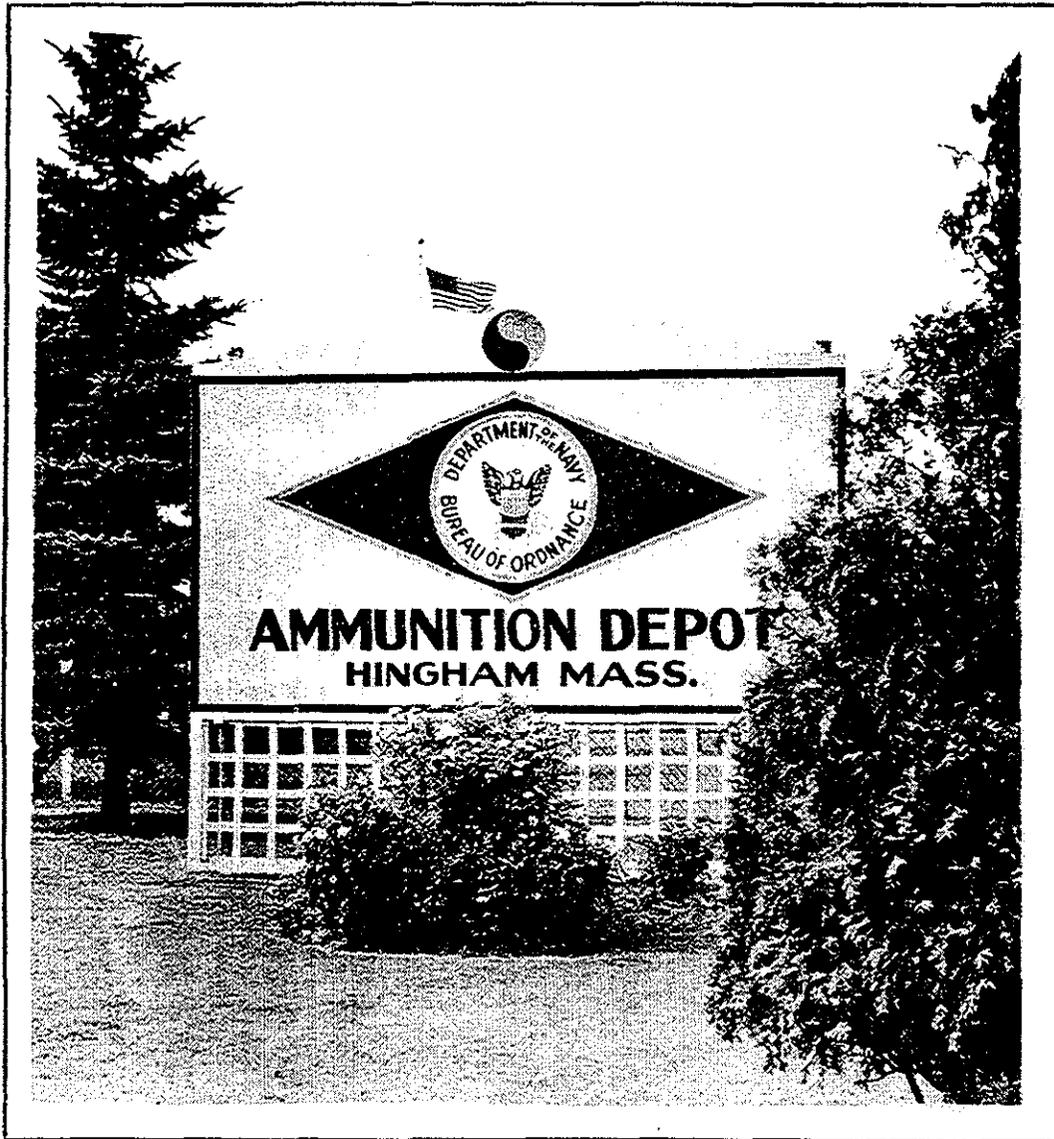
Special  
Issue

U. S. NAVAL AMMUNITION DEPOT

Vol. V, No. 20

HINGHAM, MASSACHUSETTS

March 1954



*Souvenir of the  
Hingham Ammunition Depot*

H-4

# Shot and Shell

Published bi-weekly from appropriated funds in compliance with NavExos P-35, revised November 1945, for free distribution to the Military and Civilian personnel of U.S.N.A.D., Hingham, Mass., and the Cohasset Annex, Cohasset, Mass., by order of the Commanding Officer. Printed at the Consolidated Printing Plant, Boston Naval Shipyard, Boston, Mass. The opinions expressed do NOT necessarily reflect those of the Navy Department, the Commanding Officer or the Editorial Staff. Shot and Shell is a member of the Armed Forces Press Service. AFPS material may be quoted by civilian publications provided proper credit is given EXCEPT for syndicated or copyrighted items which are so indicated and may not be released to civilian publications.

All communications should be addressed to SHOT and SHELL, Building 132, Tel. Extension 7.

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Commanding Officer

T. H. Andrews, Lt. Cdr., USNR  
Executive Officer

Robert J. Power ..... Editor  
Virginia Cashman ..... Ass't. Editor  
Charles E. Belcher ..... Staff Photographer  
A. G. McDonald ..... Art & Cartoons



This pennant flew proudly over the Hingham Naval Depot, for three consecutive years during World War II, signifying achievement in industrial efficiency.

## THE KING'S HIGHWAY

Cease your bitterness of thinking  
On the cruelty of fate,  
Raise your eyes above the meanness  
Of a world that's full of hate.

Let your look be ever upward  
As the son of God you are,  
For your eye must dwell on heaven  
When your hand rests on a star.

Let your spirit show its courage  
Through Life's long uncertain night  
By unceasing acts of kindness  
Done in knowledge of the Right.

Count each moment that is given  
As a blessing from on high;  
Spend it wisely, spend it promptly  
With a smile and not a sigh.

When your worth at last is reckoned  
In the Good Lord's gentle mind  
There will be an angel handy  
'ust to say, "This man was kind."

These short words can win a kingdom  
Here on earth as there above,  
For the only path to greatness  
Is a highway paved with love.

- Anon.

## HINGHAM IN THE OLD DAYS

Did you know that Hingham -

Was settled about 1630; the first settlers landed at the foot of Ship Street, formerly Fish Lane.

Was incorporated as a town almost 320 years ago, in 1635.

Was first named, Bare Cove, back in the 17th century.

Was named in honor of the village of Hingham in East Anglia, a rounded knob on the coast of northern England.

Opened its first school in 1668, its first free school in 1709, and a co-ed academy in 1784.

Residents in Colonial days were engaged in fishing, coopering, sail-making, or worked at a salt works, a tannery, a rope walk, and an umbrella factory.

Once included all of Cohasset (until partition in 1770), site of the Depot Annex.

### Wildlife

Citizens trapped and shot deer, otter, raccoon, mink, fox, bear, and wolf on Turkey Hill. In 1687, one hunter killed 8 wolves on the Hill. Today, only squirrel, chipmunk, rabbit and muskrat are found there.

Musketeers, in 1642, were allowed one pound of gunpowder from a barrel kept at the meeting house, for use in periodic festivities.

### Travel

Residents once travelled 18 miles to Boston, using an Indian trail. The coast was fringed by dense forest, broken here and there by beaver meadow, streams, salt marsh, and occasional plains burned over by the natives. Two hundred years later in the 1880s, the Stage Coach had shortened the travel time to two hours during the summer months.

Land, from 1635 to 1735, was granted by a drawing for house lots. To compete in the drawing, colonists had to agree to bear the charges of Church and Commonwealth. The first tax levy in the tiny settlement was six pounds.

### The Redskins

Suffered comparatively light destruction in the King Philip's war; many homes in the southern part of the 120-home town were burned by the Indians. Three forts defended the tiny community; elsewhere in Massachusetts, 16 towns were ruined, and 6% of the men of military age were killed.

Had wage, price and housing controls for a time. A journeyman

(Continued on page 11)

## BRIEF HISTORY OF THE U. S. NAVAL AMMUNITION DEPOT HINGHAM, MASSACHUSETTS

1903 - 1954

The United States Naval Ammunition Depot at Hingham, Massachusetts is a part of the Naval Bureau of Ordnance, the third largest Bureau of the Navy Department. The Depot ranks fourth highest in number of employees, amongst approximately fifteen Naval Ammunition Depots scattered over the country.

Need for a Naval magazine on the New England Coast was recognized by the Congress in 1903, when it directed that a survey be made by a Board of Naval Officers, to select a site.

Natural assets, as valid today as they were 50 years ago, led to the selection of Hingham. Enclosed by a range of bluffs, easily accessible by road, rail and water transportation, the land surface is gently rolling with natural traverses which safely permit economical grouping of magazines.

Close to a thousand acres were acquired during the years 1906 through 1913. In the early 1940's about 3,500 acres of roughly wooded land nearby were added.

Present day value of land and facilities is in the neighborhood of \$22,000,000, a considerable asset in the nation's defense system particularly in view of the nucleus of less than \$200,000 expended for the original land takings.

The first ammunition for storage was received in 1911 from the USS Missouri. In the same year transfer was completed of the stocks and records of the Chelsea magazine and those facilities were turned over to the Naval Hospital.

### World War I

World War I brought greatly expanded facilities for storage and production. Gun ammunition was assembled and mines, torpedoes, etc. were stored and issued. The work continued for some months after the close of the war while disposition was made of fleet returns. At the end of this work the number of employed dropped to 125 and remained at that level until the beginning of World War II.

During the years between wars funds available supported only minimum maintenance work and very little could be accomplished toward making improvements.

(Continued on page 11)

COMMANDING OFFICERS OF NAD HINGHAM

Captain John T. Corwin, USN, present Commanding Officer of the Depot, assumed command on September 12, 1953. Photograph at right is of Capt. Corwin.

The Depot's progress, over the years, to its present productive capacity, and the steadily increasing value of its physical establishment are a tribute to the efforts and ability which have been devoted to its service.

Inspectors of Ordnance - In Charge 1909 - 1937

- |                     |                     |                     |
|---------------------|---------------------|---------------------|
| LCDR J. L. Latimer  | CDR L. J. Wallace   | CAPT W. S. Miller   |
| LT Paul Foley       | CDR A. W. Fitch     | CAPT W. S. Anderson |
| LCDR O. G. Murfin   | CDR W. S. McClintic | CAPT F. C. Martin   |
| LCDR A. W. Marshall | CAPT C. S. Freeman  | CAPT B. H. Green    |
| LCDR F. D. Berrien  | CAPT H. H. Royall   | CAPT W. B. Woodson  |

Commanding Officers - 1938 - 1953

- |                    |                       |
|--------------------|-----------------------|
| CAPT L. P. Davis   | CAPT J. H. Willingham |
| CAPT A. H. Balsley | CAPT G. H. Bahm       |
| CAPT J. R. Palmer  | CAPT J. H. Campbell   |

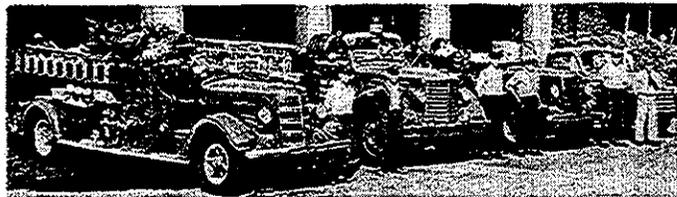


MAIN GATE ENTRANCE - FORT HILL STREET



Industrial Relations Department and the Civilian Guard Branch of Security, are located in the Gate House shown above.

MARINE BARRACKS - SECURITY DEPARTMENT



Fire Equipment



Guards Receive Safe Driving Awards

The internal security of the Depot is the concern of the Commanding Officer of the Marine Barracks. There are two sections in this department, the Military Division and the Plant Security Division.

The Military Division provides internal security using an efficient Marine guard to conduct regular patrols and maintaining a state of readiness to keep order in any emergency. Marine enlisted men perform sentry duty and serve as auxiliary guards and firefighters. This division handles all necessary functions in connection with its assigned personnel.

The Plant Security Division is composed of two civilian branches, the Civilian Guards, and the Structural Fire Branch.

The Guard Branch protects the physical plant of the Depot, and administers personnel identification and traffic regulations.

The Fire Branch is responsible for safeguarding life and property against and in the event of fire, panic, explosion, and related hazards.

Some of the civilian personnel of this department and equipment operated by the Firefighting Branch are pictured at the left. **H-4**



TANKING AND STENCILING

✦  
**Ordnance  
Department**  
✧



ASSEMBLING FIXED CHARGES, B HOUSE



OVERHAULING SEMI-FIXED AMMUNITION, C HOUSE



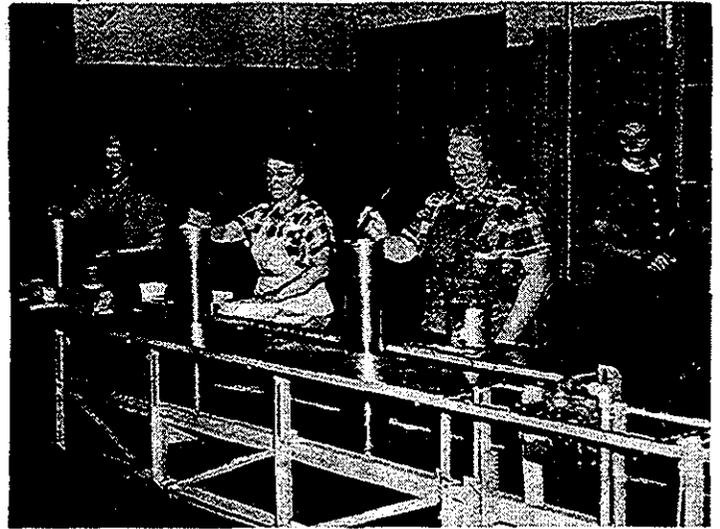
WEIGHING SMOKELESS POWDER, H HOUSE



PAINTING MAJOR CALIBER PROJECTILES, E HOUSE

The mission of the Depot, "To act as a principal source of supply and storage of ammunition for the support of the fleet," is accomplished by the Ordnance Department, supported and served by all other departments. Fulfillment of this mission involves the storage, reconditioning, overhaul, preservation and issue of all types of ammunition. Assembly facilities, for many types of ammunition, are maintained in readiness or operated as required. Other duties include disposal of unserviceable stocks, and application of statistical control to production. Preparation of Budget estimates and reports is a responsibility of this department.

The work of the department is divided among five specialized groups under the overall direction of the Ordnance Officer. The titles of these divisions are indicative of the nature of the assignments, Planning, Production, Storage, Shipment and Stock Control, and Administrative.



SEMI-FIXED AMMUNITION ASSEMBLY LINE, H HOUSE



TANK OVERHAUL SHOP



OVERHAULING ILLUMINATING PROJECTILES, F HOUSE



LOADING EXPLOSIVE "D", G HOUSE



ASSEMBLING TARGET AMMUNITION, BLDG. 165



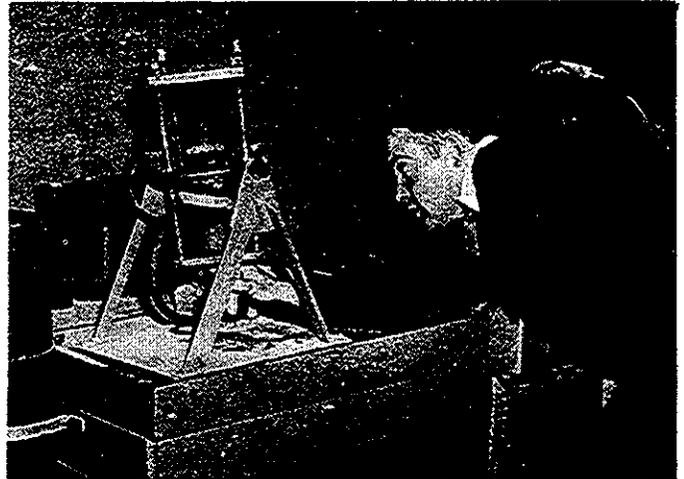
## Inspection Department

The Inspection Department applies Quality Control principles and techniques to production to assure uniformly acceptable quality in all ordnance material produced and otherwise worked at this activity.

The work of the department is performed by three major branches operating under the Acceptance Inspection Division: Incoming Inspection, subdivided into Ammunition and Components Section, and the Fleet Return Section; Loading, Assembly and Rework Inspection Branch with one subsection, Final Acceptance; and the Outgoing Inspection Branch, which has four sections, Pre-Shipment, Certification, ICC Regulations, and Weight Inspection.

The functions of this department are closely coordinated with those of the Ordnance Production Division to achieve the greatest possible degree of efficiency and economy without loss of essential quality.

The photographs on this page depict some of the routine processes by which the work of the Inspection Department is accomplished.



Watertesting Fuzes



Inspecting Container Stenciling



Cavity Depth Gauging

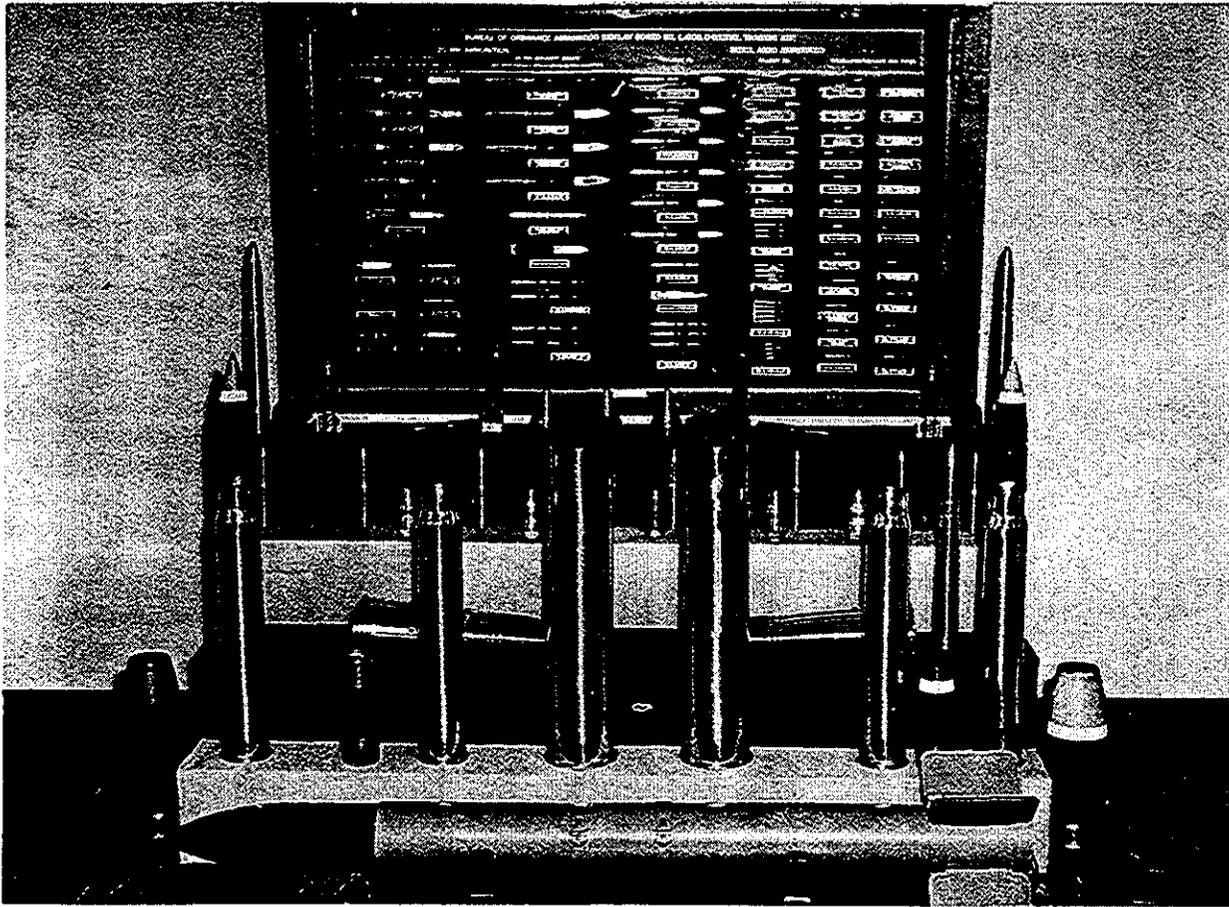


Tagging Serviceable Stocks



Checking Rail Shipments

INDUSTRIAL EXHIBIT  
On View at the Industrial Relations Department



DEPOT HISTORY (Continued from Page 2)

World War II

World War II with its North Atlantic convoys, shore patrols, and Arctic bases brought entirely new demands for storage and handling of large amounts of high explosives. It was at this time that the acreage called the Annex was added. Within a very short time utilities, road and rail facilities, and buildings needed, were complete. The high unit rate of production achieved was a source of pride to the activity.

The civilian complement of the activity reached a high in 1945 of nearly 2100 employees and the Depot was the proud possessor of an "E" pennant with five stars, signifying three years of production achievement. The war ended, and almost overnight production was curtailed and warehouses commenced to fill with fleet returns.

Employment dropped to 400 and continued its downward trend until June of 1950 when reactivation orders found 42 civilians and 4 Naval Officers on board.

Korea

As many old hands as possible were recalled and many green hands were needed also to meet the requirements of this international episode. An intensive training program for new employees and close supervision by experienced personnel brought rework costs per ton of ammunition back to pre-Korean levels, by early 1952.

This production efficiency was achieved without sacrifice of the strictest adherence to every form of accident prevention and industrial safety. From 1948 through 1952, the Secretary of the Navy Award for Achievement in Industrial Safety was earned for five consecutive years by the Hingham Naval Ammunition Depot.

Today

Today, as always in the past 50 years, the United States Naval Ammunition Depot, at Hingham Massachusetts, stands ready to fulfill its motto: "Ready Aye Ready - for any service to the fleet - Afloat or Ashore."

OLD HINGHAM (Cont'd from Page 2)

carpenter received one shilling, ten pence a day (about 44 cents); corn and rye were priced at 3 shillings (about 73 cents) per bushel; and Indians were made subject to restrictions on setting up wigwams within the town limits.

Erected a mill in 1643; it is now the oldest mill in the country in continuous operation on the same site.

SAFETY AWARDS

The Hingham Naval Ammunition Depot, thanks to constant vigilance by employees, supervisors, and the Safety Department staff, has repeatedly earned awards for its record of safety.

The awards were climaxed in 1953, when the Depot received the "Secretary of the Navy Award for Achievement in Industrial Safety," for the fifth consecutive year.

Numerous other awards have been earned over the years, all traceable to cooperation of an informed and intelligent workforce with an alert and trained Safety Department.

# Hingham Officials Fight Proposed Navy Housing

Hingham officials are determined to torpedo a proposed 770-unit Navy housing development in that town.

Selectman Mason A. Foley says he and others will take on the Navy in U.S. Supreme Court if necessary.

The impact of this project could be a dangerous experiment to Hingham," he insists. "It could disrupt the orderly growth of the town.

If the Navy goes through with its plans, it will be forcing itself on an unwilling community. It would constitute an invasion."

The 770 apartment units—costing an estimated \$14 million—would be built on a 700-acre site along Fort Street in the deactivated Navy Ammunition Depot.

Families of Navy personnel could occupy 550 units. Those of Coast Guardsmen number 200. The men are served by the First Naval District.

### INFORMATIONAL MEETING SLATED

An "informational" meeting for Hingham residents is set for tomorrow night at 8 p.m. at Central Junior High School. U.S. Rep. Hasting Keith (Bridgewater) and town officials will outline the Navy's plans and the predicted impact.

"We expect an expression of opinion from those attending," says Foley. "And from same reaction to date it should be strong opposition."

Foley says he and the other two members of the board—Chairman Willis G. Butterworth and James J. Gordon—are unitedly opposed. Standing with them, he says are:

- Town Counsel Harold Davis
- Police Chief Raymond Campbell
- Fire Chief Albert Kimball
- Building Commr. Arthur Palmer
- the entire Planning Board
- Hingham Industrial Commission
- League of Women Voters.

Davis raised the legal question as to whether the Navy could violate the town's zoning laws which forbid apartments. Other anti-arguments:

—Industrial value of the Ammunition Depot land would be wasted.

—A sudden population boom of at least 3,000 persons would require increased schools, police, fire, water facilities and personnel.

"One other important argument," says Foley, "is that the Navy would bring segregation to Hingham. These families would live behind a fence completely separated from the rest of the townspeople."

He sees little economic benefit for the town.

"Navy men won't spend their money in Hingham," he declares. "They'll buy at their own PX's."

And he has a big potential fear:

"If the Navy ever moved out of the project, it could deteriorate into a slum area."



BOSWORTH

also be a shopping center, theater, indoor sports building, nine-hole golf course, beaches and a commercial building.

"Point Squanto will return \$10 million a year in business to Quincy," Widett said. William A. O'Connell of the Quincy South Shore Chamber of Commerce told the hear-

ing that the chamber looked upon the project as an "intelligent and challenging use of an extremely large piece of valuable and undeveloped waterfront property."

Banker William F. Kelly, vice-president of the Quincy Trust Co., said, "It will be a boom to the city and will widen our horizons."

BOSTON - GLOBE

4/15/66

# Naval Depot Row May Go to Top

By HERB GORDON

HINGHAM—The Hingham Naval Ammunition Depot land-use controversy will be dumped directly into Defense Secretary Robert McNamara's lap if a speedy decision isn't forthcoming from the Pentagon.

Congressman Hastings Keith told a packed Central Junior High School gathering Thursday night that the Navy Department has been consistent in its policy on the depot land, while the valuable property has lain idle for five years.

Meanwhile Hingham is losing revenue, and the county is losing industrial capacity, all of which is not in the interest of the taxpayers," Keith declared.

## Hingham

Keith claims that the Navy, which has considered military housing for a portion of the depot, has not figured land values in plans for family units in the \$17,500 range.

"The land cost is not known," Keith declared, noting that Hingham's assessors say its worth \$6 million, while the Industrial Development Commission placed the development potential at \$10 million.

"Sec. McNamara would be out of character to overlook these costs," the Republican lawmaker said, in reference to land costs, added to the per-unit estimate for proposed housing.

"It will be brought to his attention if we have to go higher than the Assistant Secretary of the Navy. We will do this, if we do not hear from him in the next six weeks," Keith promised.

The audience, mostly interested taxpayers from Hingham, Cohasset, Norwell and Scituate, heard complaints that the General Services Administration, which Keith said still has a "hold" on the depot, has stymied any chance for interested groups to secure sections of the depot for other use. The sprawling 3700-acre tract lies within the four South Shore towns, the bulk of the land here.

Hingham and Cohasset groups want the depot used as a bird and wildlife sanctuary. Hingham Selectman Willis A. Butteworth, whose board sponsored the protest meeting, said a new application will be made to G.S.A., owner of the abandoned depot since the Navy pulled out in 1952—for use as a sanctuary.

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX I

PERSONAL INTERVIEWS

APPENDIX I  
PERSONAL INTERVIEWS

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- I-3 Interview with Obie Johnson.
- I-4 Interview with Eugene Chamberlain.
- I-5 Interview with Bruce Pinel.
- I-6 Interview with Frank Sheltry.
- I-7 Interview with Mike Costello.

|  |  |  |  |
|--|--|--|--|
| <b>CONVERSATION RECORD</b>                               |  | <b>TIME</b><br>1000 hours              | <b>DATE</b><br>19 October 1994   |
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| <b>NAME OF PERSON CONTACT WITH</b><br>John P. Richardson | <b>ORGANIZATION</b><br>Private Citizen | <b>TELEPHONE NO.</b><br>(617) 749-1651 |  |
| <b>SUBJECT</b> Hingham Naval Ammunition Depot            |  |  |  |

**SUMMARY**

Messrs. McManus and LaForge met with Mr. Richardson at his home in Hingham, Massachusetts. Mr. Richardson is a noted local historian and environmental advocate. We explained the DERP-FUDS mission and explained our interest in the former Hingham Naval Ammunition Depot. He was familiar with the discovery of a loaded 5" shell casing by the North pier in August 1975.

He remembered other incidences of military gear such as gas mask parts and empty ammunition cases being found in Bare Cove Park. He apologized for not being able to give us specific citations due to his recent acquisition of a large number of documents that made it impossible for him to readily access his records. We provided him with our addresses and telephone numbers and departed after thanking him for his time.

|  |                                  |   |
|--|----------------------------------|---|
| <b>ACTION REQUIRED</b><br>None                                 |                                  |   |
| <b>ACTION TAKEN</b><br>None                                    |                                  |   |
| <b>NAME OF PERSON DOCUMENTING CONVERSATION</b><br>Mike LaForge | <b>ORGANIZATION</b><br>SMCAC-ESL | <b>TELEPHONE NUMBER</b><br>(815) 273-8762 |
| <b>SIGNATURE</b><br><i>Mike LaForge</i>                        | <b>TITLE</b><br>QASAS            | <b>DATE</b><br>12 5 OCT 1994              |

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|---|--|---|--|
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| <b>NAME OF PERSON CONTACT WITH</b><br>Ensign David J. Iacobucchi  | <b>ORGANIZATION</b><br>Public Affairs<br>Office, NAS South<br>Weymouth, MA | <b>TELEPHONE NO.</b><br>(617) 745-8472    |  |
| <b>SUBJECT</b> Hingham Naval Ammunition Depot   |  |   |  |
| <b>SUMMARY</b>  |  |   |  |
| <p>Messrs. McManus and LaForge met with Ensign Iacobucchi in his office at the NAS South Weymouth, Massachusetts. We explained the DERP-FUDS mission and our interest in the former Hingham Naval Ammunition Depot. He allowed us to peruse the Public Affairs Office clippings file for the last 15 years. An article detailing the discovery of a 5" cartridge case (see document H-2) was copied. He told us that the EOD team formerly assigned had been deactivated and their records had been destroyed. He had no knowledge of more recent discoveries of OEW in the Hingham area. We exchanged addresses, thanked him for his time and departed the area.</p> |  |   |  |
| <b>ACTION REQUIRED</b>  |  |   |  |
| None  |  |   |  |
| <b>ACTION TAKEN</b>   |  |   |  |
| None  |  |   |  |
| <b>NAME OF PERSON DOCUMENTING CONVERSATION</b><br>Mike LaForge  | <b>ORGANIZATION</b><br>SMCAC-ESL   | <b>TELEPHONE NUMBER</b><br>(815) 273-8762 |  |
| <b>SIGNATURE</b><br><b>ORIGINAL SIGNED</b>   | <b>TITLE</b><br>QASAS  | <b>DATE</b> 25 OCT 1994                   |  |

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| <b>CONVERSATION RECORD</b>                         |                                       | <b>TIME</b><br>1400 hours              | <b>DATE</b><br>19 October 1994                             |
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| <b>NAME OF PERSON CONTACT WITH</b><br>Obie Johnson | <b>ORGANIZATION</b><br>Bare Cove Park | <b>TELEPHONE NO.</b><br>(617) 749-8842 |  |
| <b>SUBJECT</b> Hingham Naval Ammunition Depot      |                                       |  |  |

**SUMMARY**

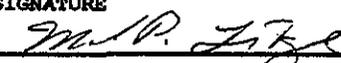
Messrs. McManus and LaForge met with Mr. Johnson at the entrance to Bare Cove Park. We explained the DERP-FUDS program and our interest in the former Hingham Naval Ammunition Depot. Mr. Johnson has been employed for several years at Bare Cove Park as a security person as well as at the former Hingham Naval Ammunition Depot in the same capacity. He was of the opinion that many of the stories concerning ammunition discoveries were exaggerations that should not be taken seriously. When pressed about OEW discoveries, he said he had not found or seen any OEW in all his years working in the area. We thanked him for his time and departed the area.

|   |                                  |   |
|---|----------------------------------|---|
| <b>ACTION REQUIRED</b><br>None  |                                  |   |
| <b>ACTION TAKEN</b><br>None   |                                  |   |
| <b>NAME OF PERSON DOCUMENTING CONVERSATION</b><br>Mike LaForge  | <b>ORGANIZATION</b><br>SMCAC-ESL | <b>TELEPHONE NUMBER</b><br>(815) 273-8762 |
| <b>SIGNATURE</b><br> | <b>TITLE</b><br>QASAS            | <b>DATE</b><br>25 OCT 1994                |

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| <b>NAME OF PERSON CONTACT WITH</b><br>Eugene Chamberlain | <b>ORGANIZATION</b><br>Hingham Historical Society | <b>TELEPHONE NO.</b><br>(617) 749-2731 |  |
| <b>SUBJECT</b> Hingham Naval Ammunition Depot            |   |  |  |

**SUMMARY**

Messrs. McManus and LaForge met with Mr. Chamberlain at the Hingham City Offices and explained the DERP-FUDS program and our interest in the former Hingham Naval Ammunition Depot. Mr. Chamberlain told us the Historical Society actually focused on the era prior to the establishment of the Hingham Naval Ammunition Depot in 1903. He did introduce us to several persons with knowledge of the site and told us he knew only of what people had told him about finding items on shore or after digging. The team then visited the Historical Society and examined some professionally inerted cartridges and shells from the Civil War which had been discovered in a crate in a basement. We thanked Mr. Chamberlain for his time, left our addresses and phone numbers and departed.

|   |                                  |   |
|---|----------------------------------|---|
| <b>ACTION REQUIRED</b><br>None  |                                  |   |
| <b>ACTION TAKEN</b><br>None   |                                  |   |
| <b>NAME OF PERSON DOCUMENTING CONVERSATION</b><br>Mike LaForge  | <b>ORGANIZATION</b><br>SMCAC-ESL | <b>TELEPHONE NUMBER</b><br>(815) 273-8762 |
| <b>SIGNATURE</b><br> | <b>TITLE</b><br>QASAS            | <b>DATE</b> 25 OCT 1994                   |

|   |  |   |                                |                          |           |                          |          |                          |          |
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| <b>CONVERSATION RECORD</b>                        |  | <b>TIME</b><br>1900 hours   | <b>DATE</b><br>21 October 1994 |                          |           |                          |          |                          |          |
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| <input type="checkbox"/>                          | OUTGOING                               |   |                                |                          |           |                          |          |                          |          |
| <b>NAME OF PERSON CONTACT WITH</b><br>Bruce Pinel | <b>ORGANIZATION</b><br>Private Citizen | <b>TELEPHONE NO.</b><br>(617) 749-4268  |                                |                          |           |                          |          |                          |          |
| <b>SUBJECT</b> Hingham Naval Ammunition Depot     |  |   |                                |                          |           |                          |          |                          |          |

**SUMMARY**

Messrs. McManus and LaForge met with Mr. Pinel in his home in Hingham, Massachusetts. We explained the DERP-FUDS program and our interest in the former Hingham Naval Ammunition Depot. Mr. Pinel told us father worked at the Depot and that he had given his son a large quantity of pictures that reflected the growth of the Depot over the years (see Appendix K). Mr. Pinel said we were welcome to copy them. He had heard reports of OEW being found and even had some old brass cartridge cases which had been converted to ashtrays and lamp bases. He had no knowledge of any recent discoveries of OEW or Accidents/incidents involving OEW. We borrowed his pictures for reproduction, exchanged addresses and departed after thanking him for his time.

**ACTION REQUIRED**

None

**ACTION TAKEN**

None

|  |                                  |   |
|--|----------------------------------|---|
| <b>NAME OF PERSON DOCUMENTING CONVERSATION</b><br>Mike LaForge | <b>ORGANIZATION</b><br>SMCAC-ESL | <b>TELEPHONE NUMBER</b><br>(815) 273-8762 |
| <b>SIGNATURE</b><br><i>Mike P. LaForge</i>                     | <b>TITLE</b><br>QASAS            | <b>DATE</b><br>12 5 OCT 1994              |

| CONVERSATION RECORD   |                             | TIME                                | DATE   |
|---|-----------------------------|-------------------------------------|--|
|   |                             | 1000 hours                          | 22 October 1994  |
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| NAME OF PERSON CONTACT WITH   | ORGANIZATION                | TELEPHONE NO.                       |  |
| Frank Sheltry   | Bare Cove Park<br>Committee | (617) 749-1101                      |  |
| SUBJECT Hingham Naval Ammunition Depot  |                             |                                     |  |
| SUMMARY   |                             |                                     |  |
| <p>Messrs. McManus and LaForge met with Mr. Sheltry at the entrance to Bare Cove Park. We explained the DERP-FUDS program and our interest in the former Hingham Naval Ammunition Depot. Mr. Sheltry showed us the demilitarized pieces of ammunition and components he has dug up or otherwise discovered over the last few years (see photograph J-3). He then gave us a guided tour of the area culminating in stops at the former sifting house, popping furnace, burial area, dump area as well as the two piers. The team also had the opportunity to enter several old above-ground and earth-covered magazines and view their conditions. During this tour, old steel pallets and rusted ammunition storage containers were noted in several locations. The area where fuze ogives had been found (burial area) was inspected but no evidence of OEW was noted. He had no knowledge of recent discoveries of OEW, excepting the 5" cartridge case in 1975. At the conclusion of the tour, we exchanged addresses, thanked him for his time and departed the area.</p> |                             |                                     |  |
| ACTION REQUIRED   |                             |                                     |  |
| None  |                             |                                     |  |
| ACTION TAKEN  |                             |                                     |  |
| None  |                             |                                     |  |
| NAME OF PERSON DOCUMENTING CONVERSATION   | ORGANIZATION                | TELEPHONE NUMBER                    |  |
| Mike LaForge  | SMCAC-ESL                   | (815) 273-8762                      |  |
| SIGNATURE   | TITLE                       | DATE                                |  |
| ORIGINAL SIGNED    | QASAS                       | 25 OCT 1994                         |  |

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| X   | OUTGOING                                   |  |                                |                          |           |                          |          |   |          |
| <b>NAME OF PERSON CONTACT WITH</b><br>Mike Costello   | <b>ORGANIZATION</b><br>Boston Fire Marshal | <b>TELEPHONE NO.</b><br>(617) 566-4500   |                                |                          |           |                          |          |   |          |
| <b>SUBJECT</b> Hingham Naval Ammunition Depot   |  |  |                                |                          |           |                          |          |   |          |
| <b>SUMMARY</b>  |  |  |                                |                          |           |                          |          |   |          |
| <p>Mr. LaForge called the Fire Marshal for the City of Boston which also provides the Bomb squad service for the Massachusetts State Police. Mr. Costello was an EOD technician assigned to Otis AFB in the 1980's and remembered responding to incidents in the Hingham area. He could not relate specific incidents but just had a general feeling that certain areas of the former depot were probably contaminated. He could remember no incidences of personal injury or property damage. I thanked him for his time, exchanged addresses and terminated the conversation.</p> |  |  |                                |                          |           |                          |          |   |          |
| <b>ACTION REQUIRED</b>  |  |  |                                |                          |           |                          |          |   |          |
| None  |  |  |                                |                          |           |                          |          |   |          |
| <b>ACTION TAKEN</b>   |  |  |                                |                          |           |                          |          |   |          |
| None  |  |  |                                |                          |           |                          |          |   |          |
| <b>NAME OF PERSON DOCUMENTING CONVERSATION</b><br>Mike LaForge  | <b>ORGANIZATION</b><br>SMCAC-ESL           | <b>TELEPHONE NUMBER</b><br>(815) 273-8762  |                                |                          |           |                          |          |   |          |
| <b>SIGNATURE</b><br>ORIGINAL SIGNED    | <b>TITLE</b><br>QASAS                      | <b>DATE</b> 25 OCT 1994  |                                |                          |           |                          |          |   |          |

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D0MA002204

APPENDIX J

PRESENT SITE PHOTOGRAPHS

## APPENDIX J

### PRESENT SITE PHOTOGRAPHS

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- J-1 Former front gate, Fort Street
- J-2 South Shore Residential area.
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- J-4 Popping Furnace foundation.
- J-5 Detonator Storehouse, circa 1929.
- J-6 Typical earth-covered magazine, central area.
- J-7 Suspect materiel burial area, view south.
- J-8 Suspect materiel burial area, view north.
- J-9 Typical earth-covered magazine, south area.
- J-10 Typical earth-covered magazine, north area.
- J-11 Recreation area on western edge of bay.
- J-12 Explosive D sifting house.
- J-13 Northern pier.
- J-14 Southern pier.
- J-15 Service magazine and test well.
- J-16 Uncontaminated western boundary.



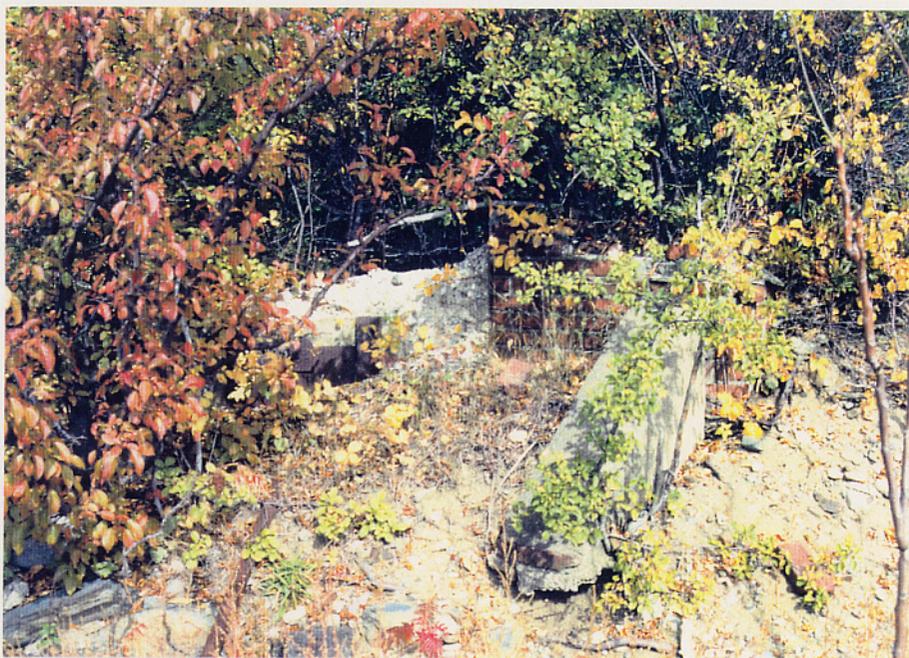
J-1 Former front gate, Fort St.



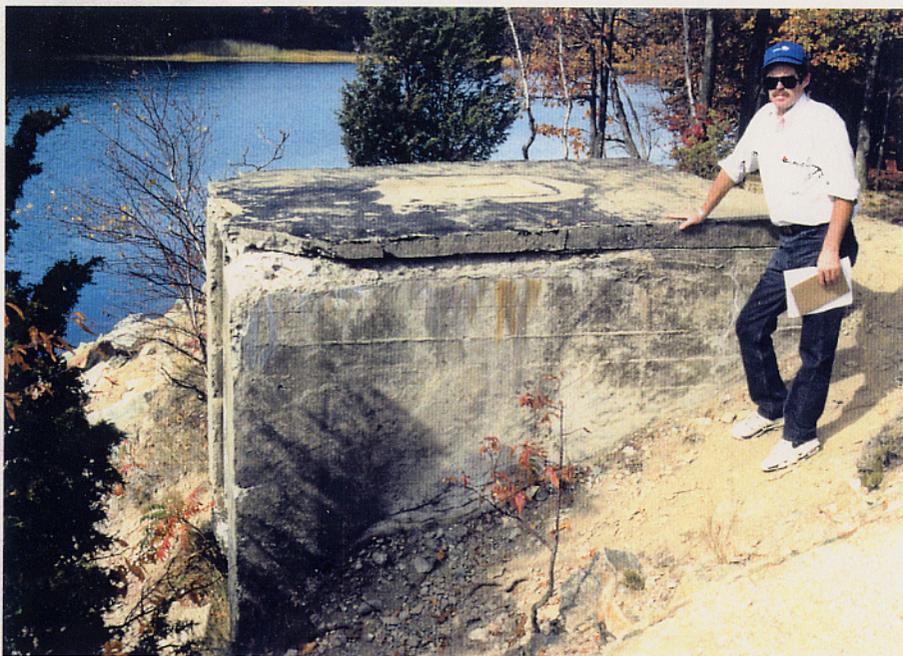
J-2 South Shore Residential area.



J-3 OEW found near popping furnance.



J-4 Popping Furnance foundation.



J-5 Detonator Storehouse, ca.1929.



J-6 Typical Earth-covered Magazine, central area.



J-7 Suspect materiel burial area, view south.



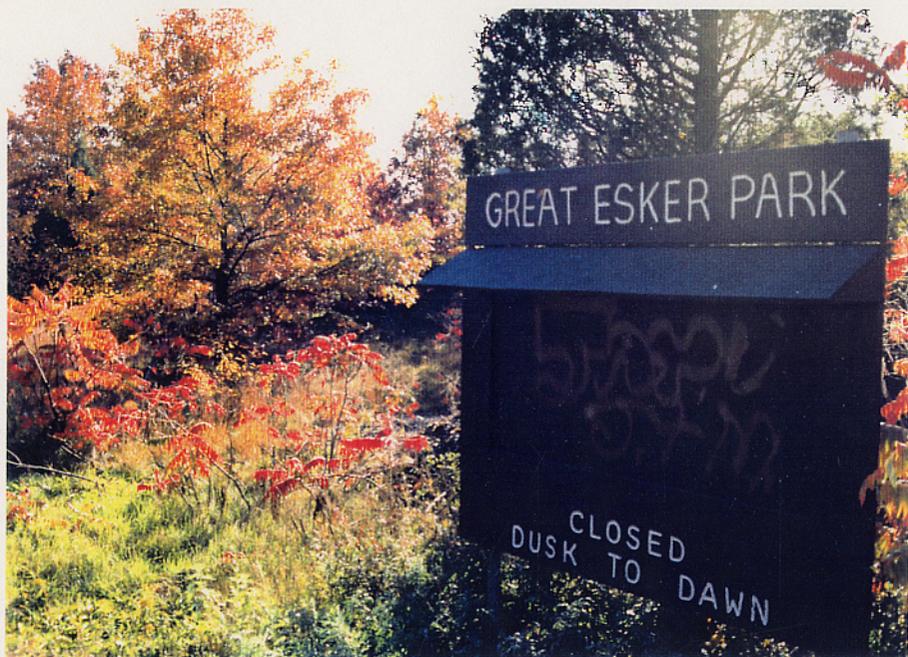
J-8 Suspect materiel burial area, view north.



J-9 Typical earth-covered magazine, south area.



J-10 Typical earth-covered magazine, north area



J-11 Recreation area on western edge of bay.



J-12 Explosive D sifting house.



J-13 Northern pier



J-14 Southern pier



J-15 Service magazine and test well.



J-16 Uncontaminated western boundary

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX K

HISTORICAL PHOTOGRAPHS

APPENDIX K  
HISTORICAL PHOTOGRAPHS

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- K-4 North pier, September 1936.
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- K-8 Typical inert storehouse.
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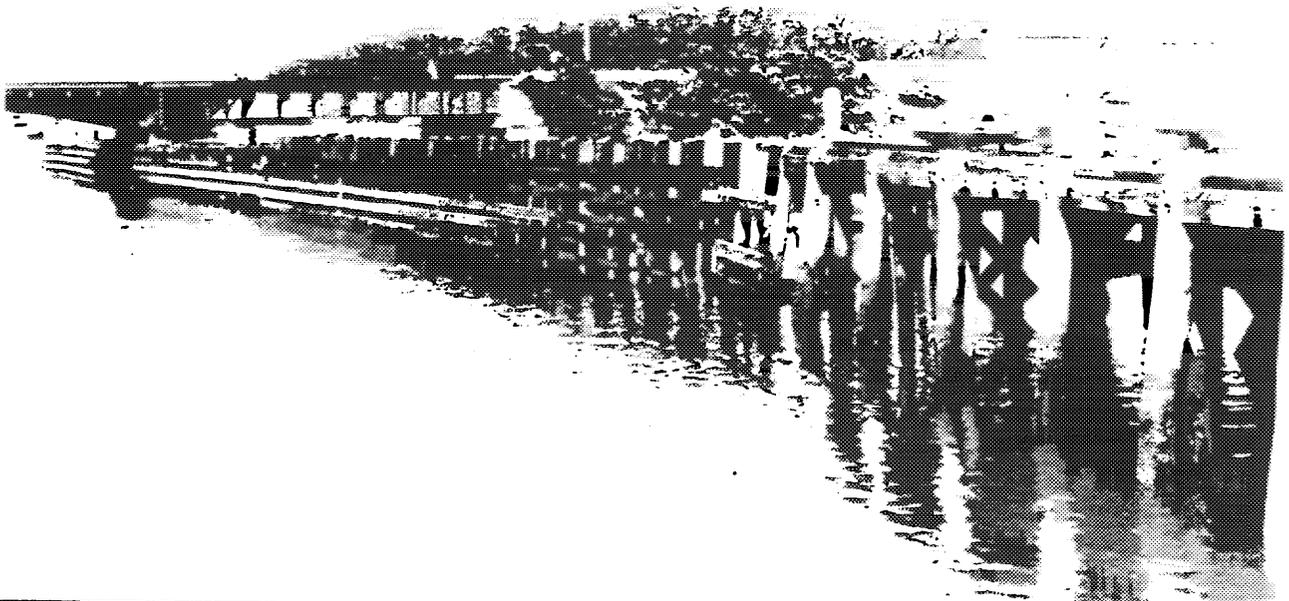
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**K-2**

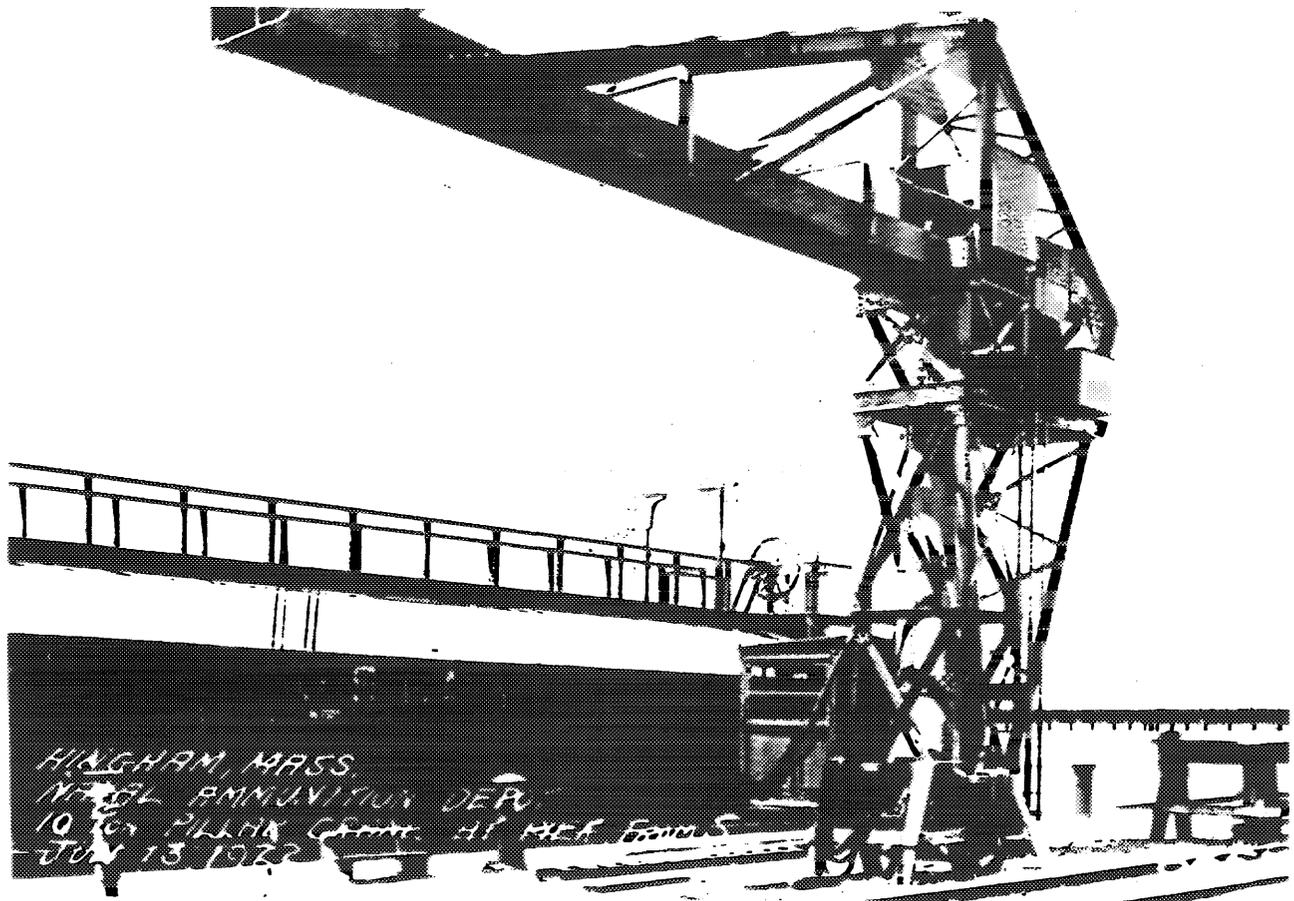


K-3



US Naval Ammunition Depot, Hingham, Mass. WPA Project 49-100-Repair and Improvement of Waterfront Structures. Pile Fender. View looking N. Sept. 14 1936.

K-4

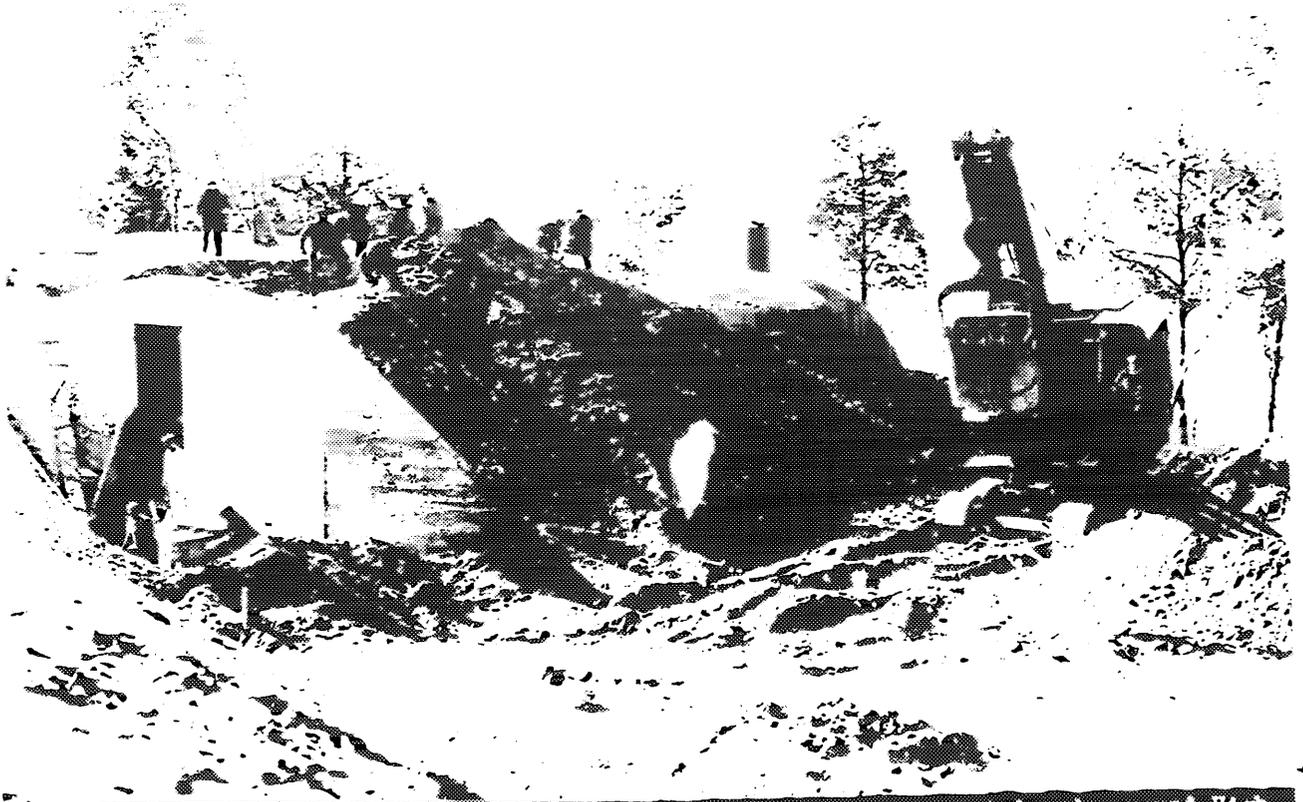


HINGHAM, MASS  
NAVAL AMMUNITION DEPOT  
10 Ton PILE CRANE AT PIER FENDER  
JUN 13 1937

K-5



K-6

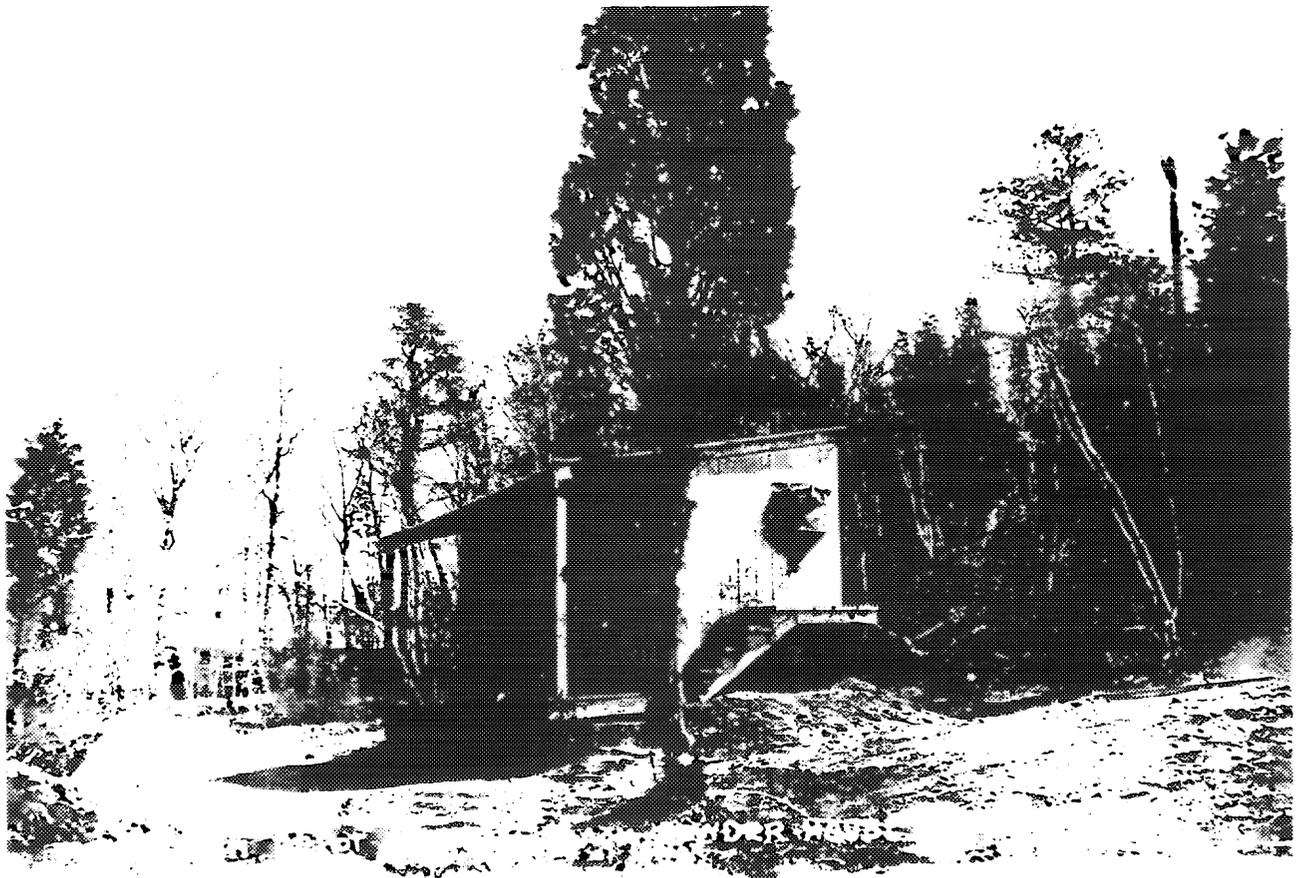


K-7

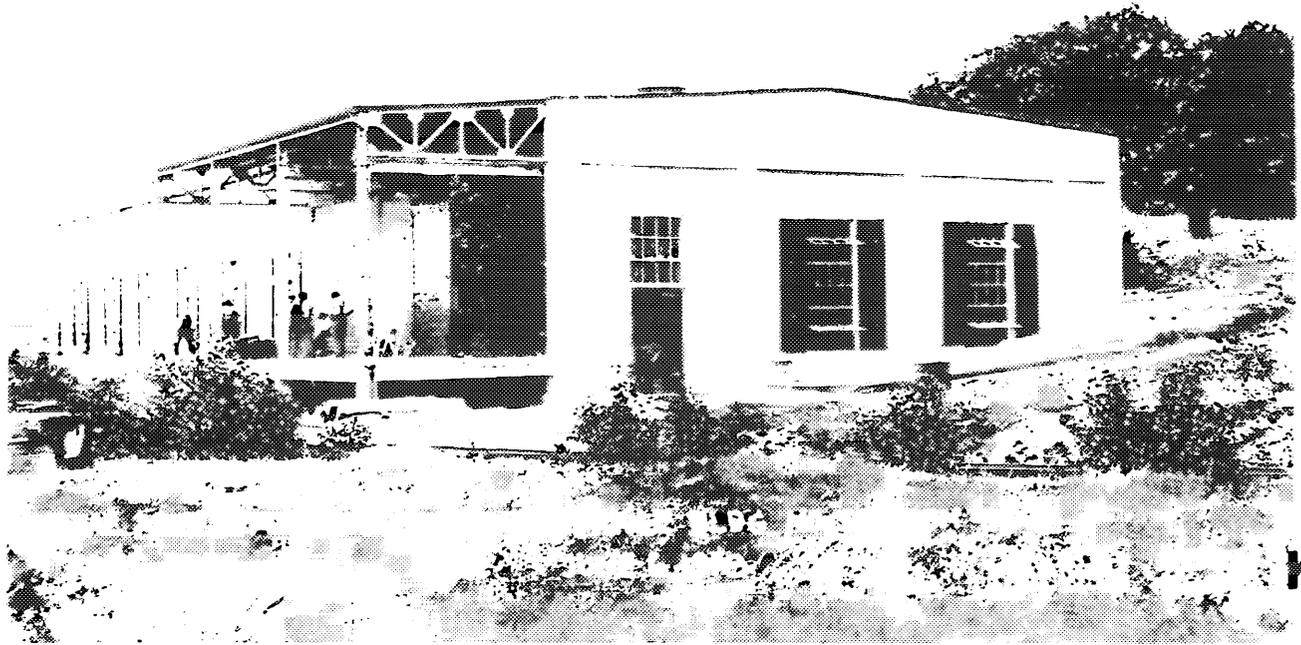
Naval Ammunition Depot, Hingham, Mass. Oct 29 1941. Backfilling completed underground High Explosive Magazine (26' x 50') looking northwest. State WPA Project OP 165-3-14-504 . (2741-41 Navy Yard Boston)



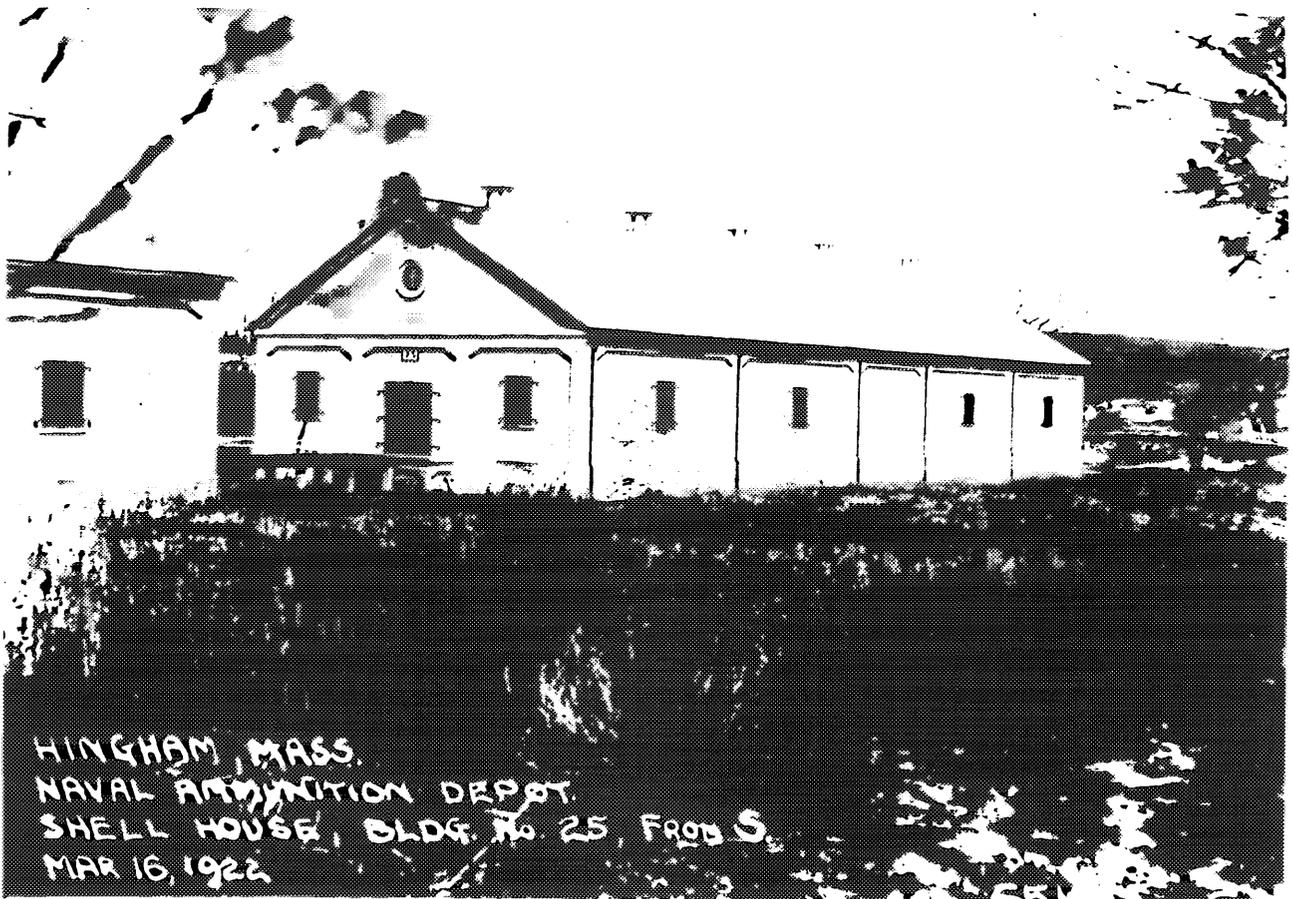
K-8



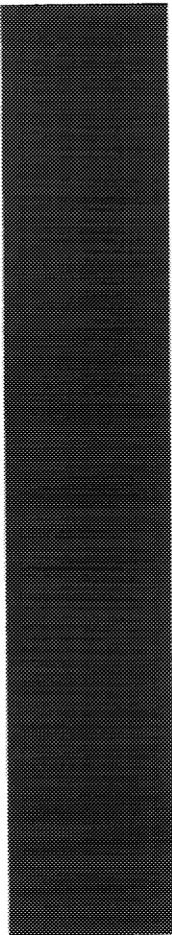
K-9



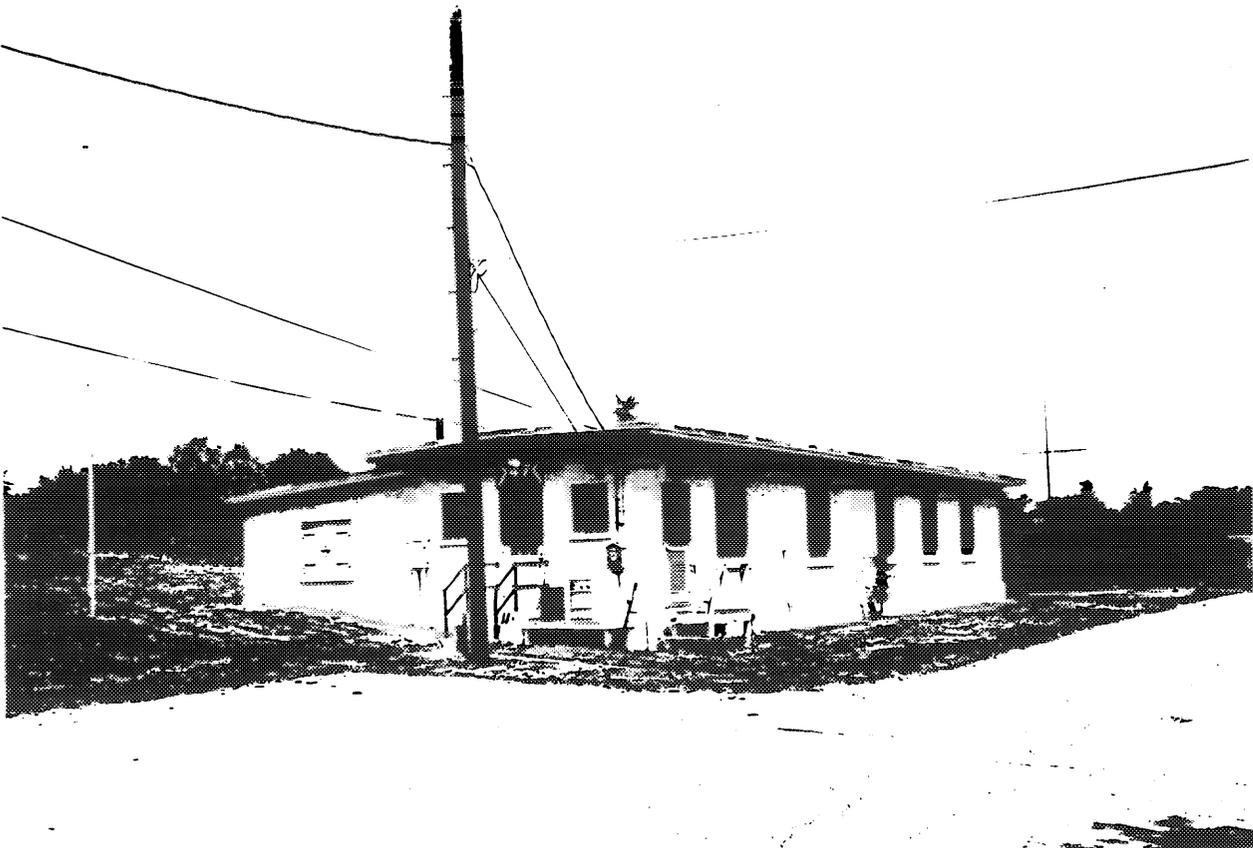
K-10



K-11



2

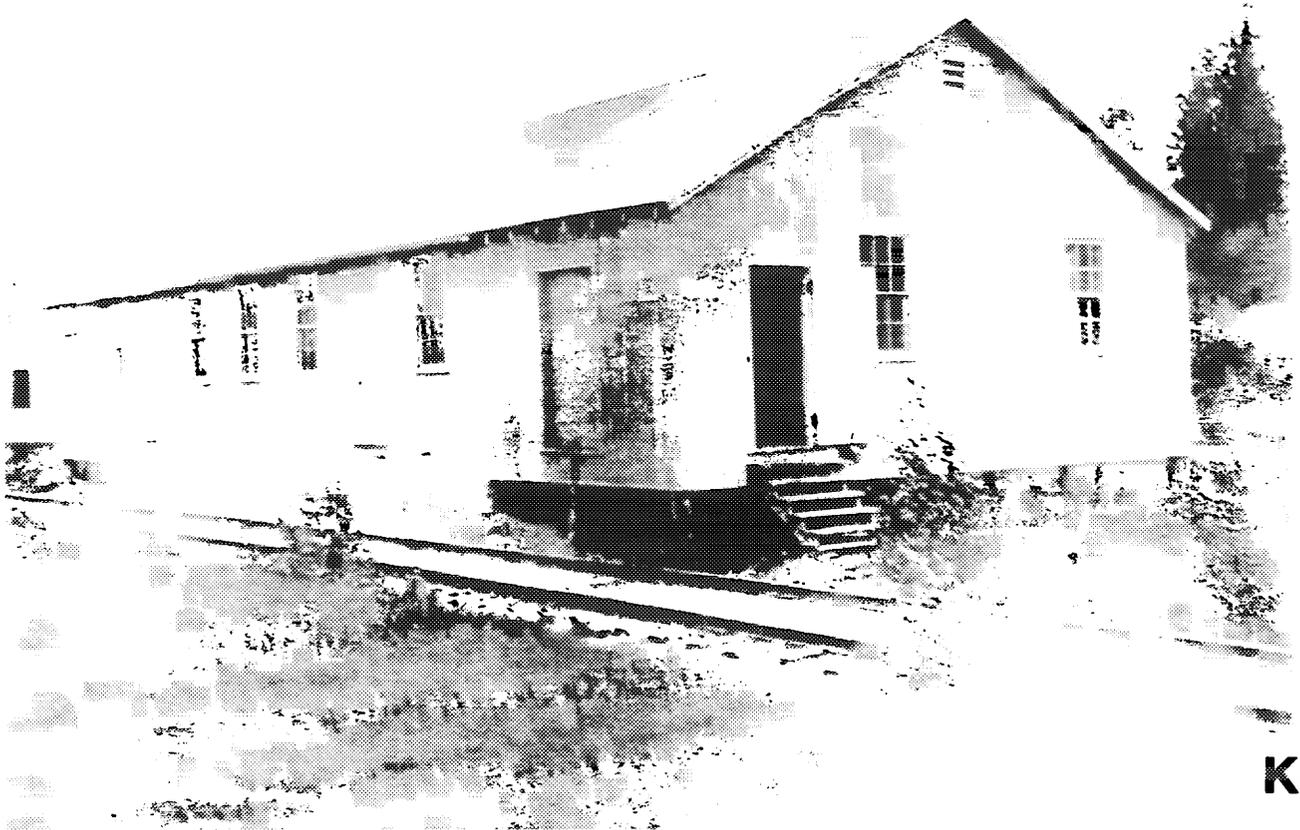


K-13

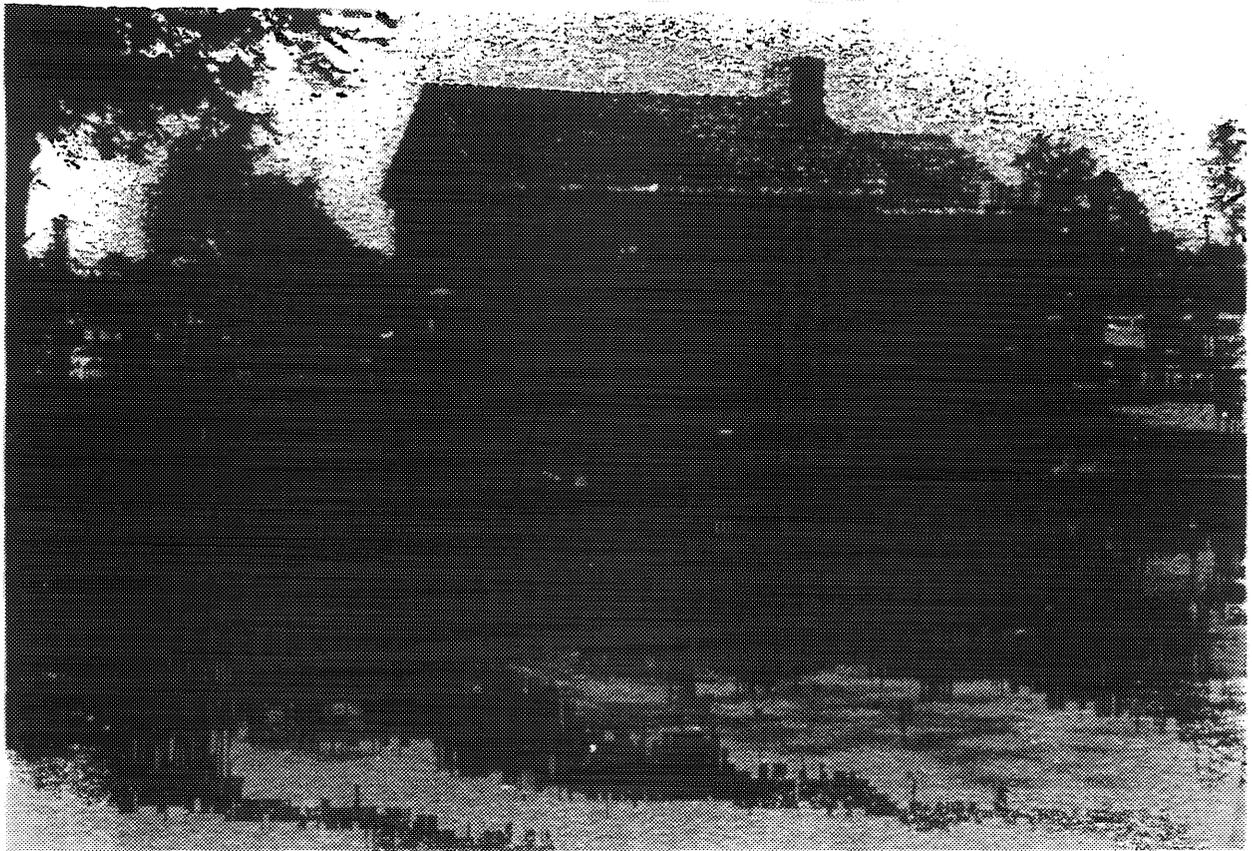


Naval Ammunition Depot, Hingham, Mass. Oct 29 1941. Completed underground High Explosive Magazine (26' x 50') looking west. State WPA Project OP 165-3-14-504 . (2739-41 Navy Yard Boston)

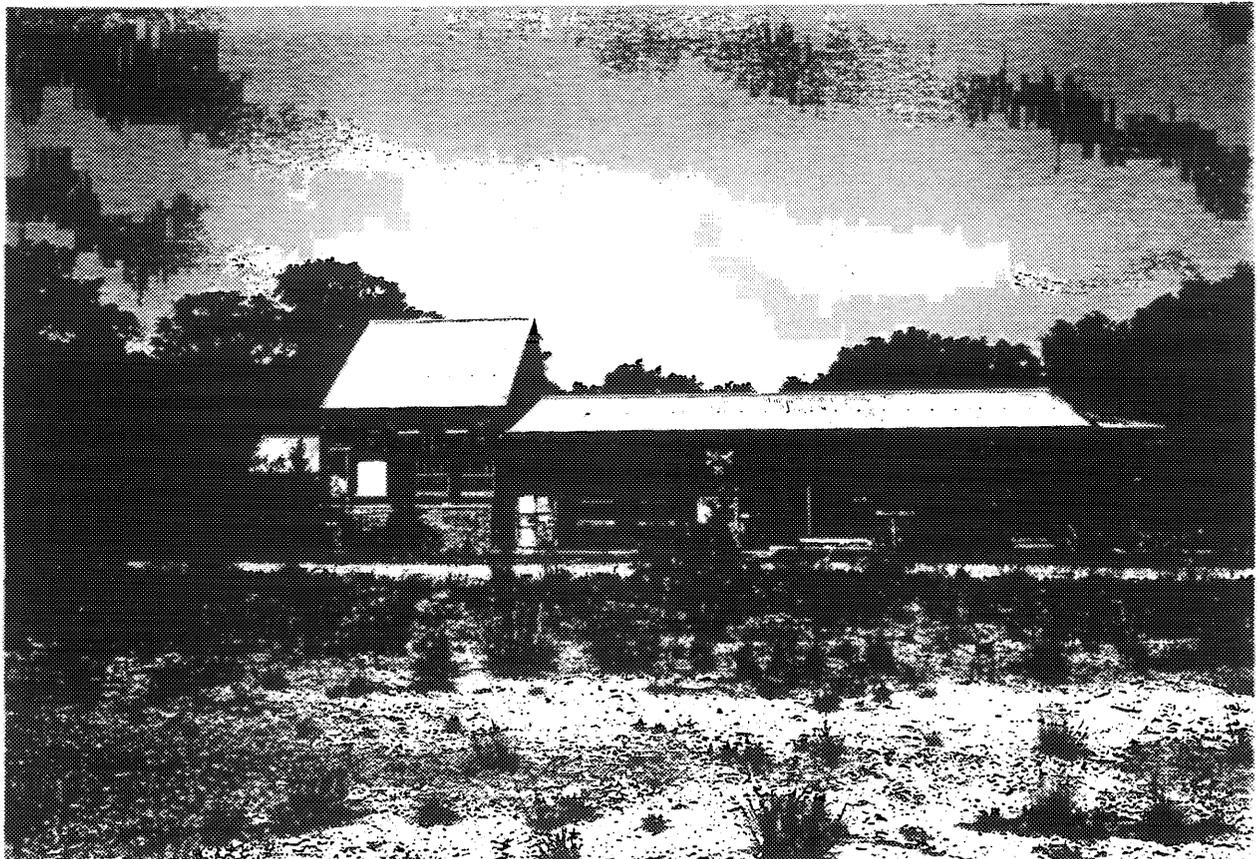
K-14



K-15



**K-16**



**K-17**

ORDNANCE AND EXPLOSIVES WASTE  
ARCHIVES SEARCH REPORTS  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

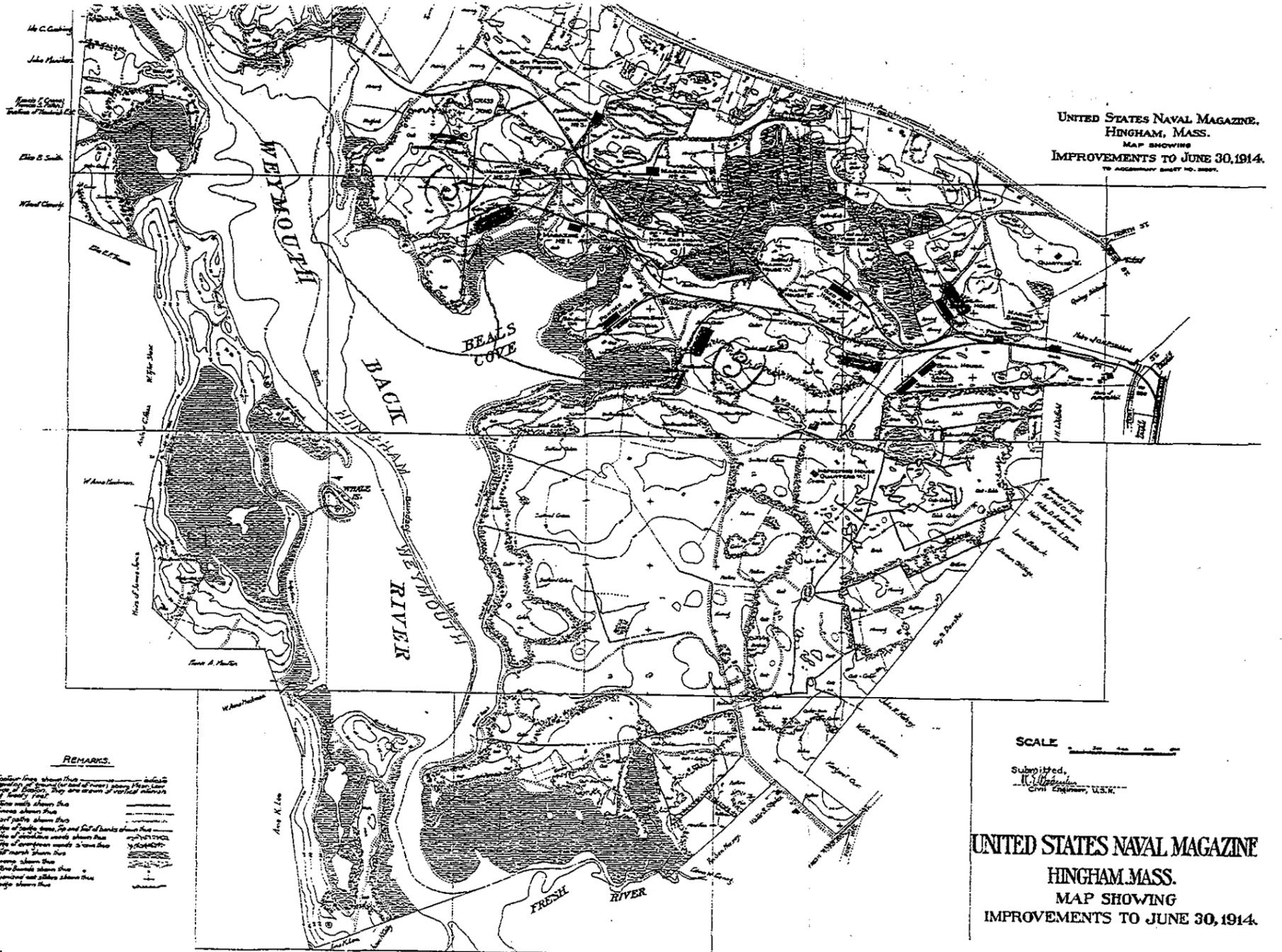
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REFERENCE MAPS/DRAWINGS

APPENDIX L

REFERENCE MAPS/DRAWINGS

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- L-2 Site Map, 30 June 1942.
- L-3 Site Map, 30 June 1951.
- L-4 Bare Cove Park, October 1994.



UNITED STATES NAVAL MAGAZINE,  
 HINGHAM, MASS.  
 MAP SHOWING  
 IMPROVEMENTS TO JUNE 30, 1914.  
 HYDROGRAPHIC SURVEY NO. 1007.

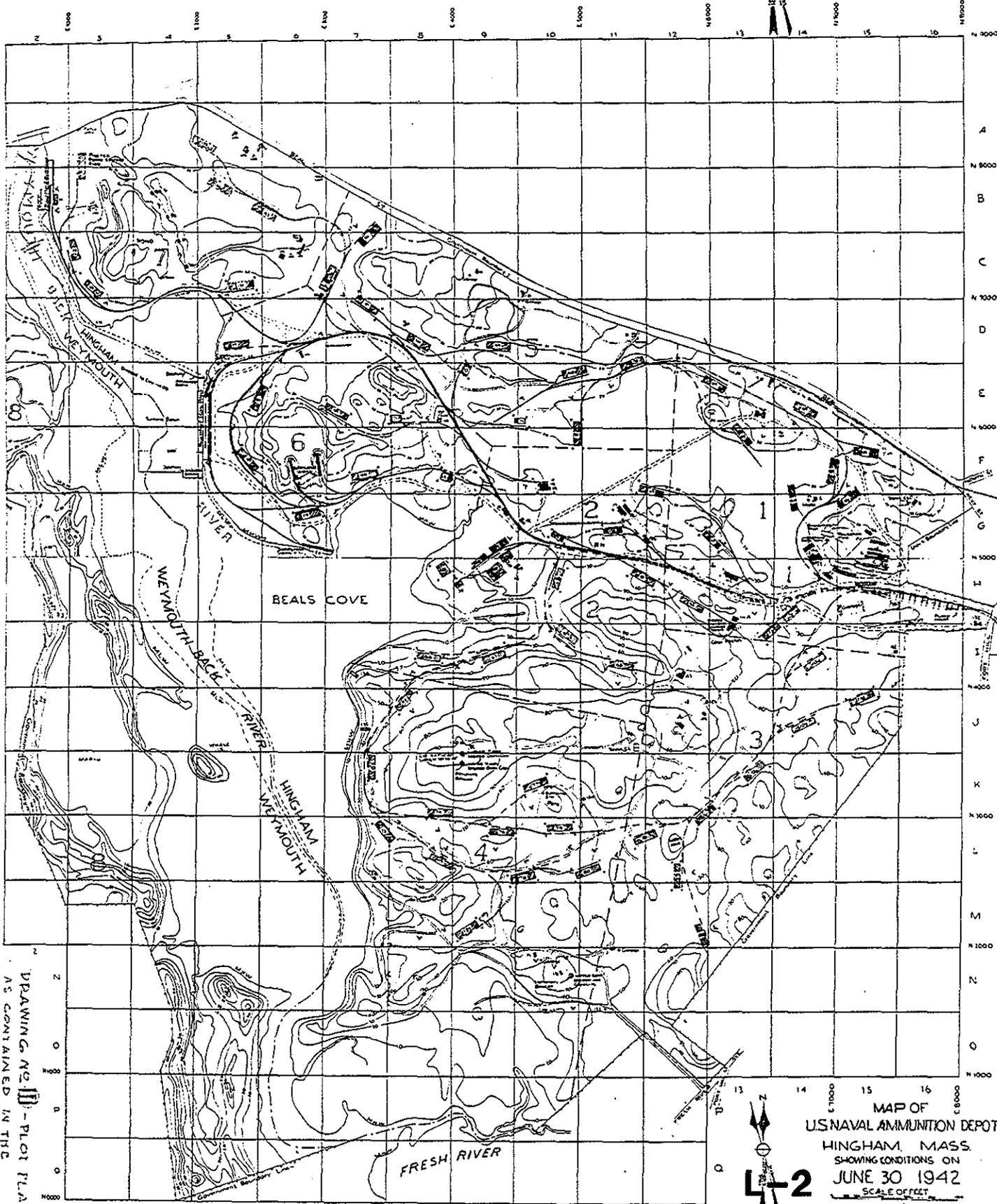
Mr. C. Cook  
 John Hunter  
 Francis S. Green  
 William H. Smith  
 Elmer B. Smith  
 Wood County

**REMARKS.**  
 Contour lines show true depths, unless  
 specified, (at bottom of river) soundings show  
 up to 100 fathoms, they are drawn of vertical distance  
 of water only.  
 Shaded areas show the  
 ground shown thus  
 Contour lines show the  
 edge of rocks, reefs, and bed of banks shown thus  
 Edge of rocks, reefs, and bed of banks shown thus  
 Edge of rocks, reefs, and bed of banks shown thus  
 Edge of rocks, reefs, and bed of banks shown thus  
 Edge of rocks, reefs, and bed of banks shown thus  
 Edge of rocks, reefs, and bed of banks shown thus  
 Edge of rocks, reefs, and bed of banks shown thus  
 Edge of rocks, reefs, and bed of banks shown thus  
 Edge of rocks, reefs, and bed of banks shown thus

SCALE 1:50,000

Submitted,  
 W. H. Smith  
 Civil Engineer, U.S.N.

UNITED STATES NAVAL MAGAZINE  
 HINGHAM, MASS.  
 MAP SHOWING  
 IMPROVEMENTS TO JUNE 30, 1914.



DRAWING NO. 111 - PLOT PLAN  
 AS CONTAINED IN THE  
 CAMOUFLAGE PLAN  
 ENG. (C) COPY.

MAP OF  
 U.S. NAVAL AMMUNITION DEPOT  
 HINGHAM, MASS.  
 SHOWING CONDITIONS ON  
 JUNE 30, 1942  
 SCALE OF FEET

4-2

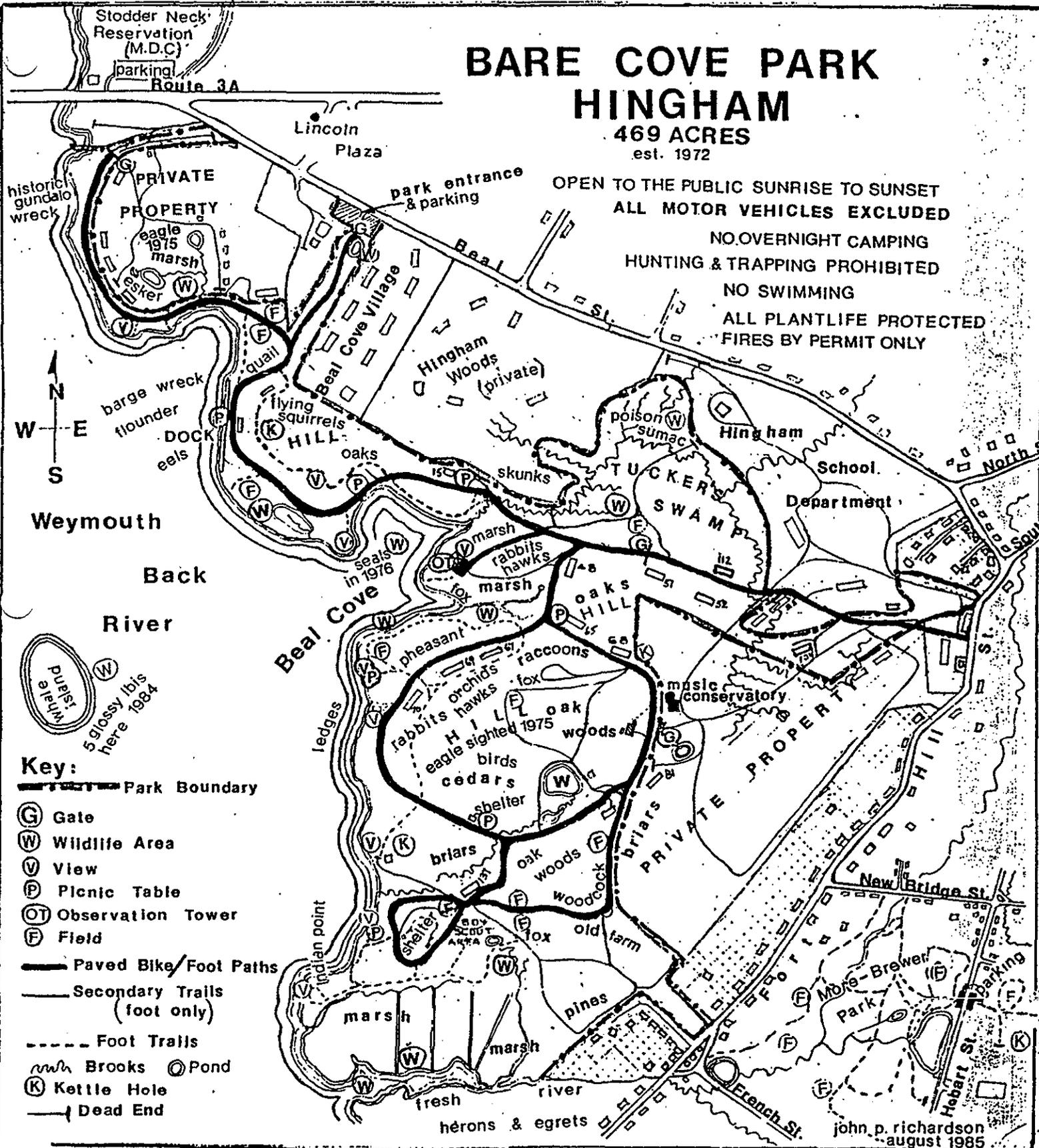
1 Area Land 716 Acres  
 2 Water 124 Acres  
 3 Total 840 Acres  
 4 Contour lines 5 feet above mean low tide at Boston. They are shown at vertical intervals  
 6 Contour lines 10 feet above mean low tide at Boston. They are shown at vertical intervals  
 7 The mean of Primary System U.S. Standard  
 8 Projection shown thus is  
 9 Control points to which they are referred  
 10 Scale of Feet  
 11 Sheet No. 1 of 2 Sheets



# BARE COVE PARK HINGHAM

469 ACRES  
est. 1972

OPEN TO THE PUBLIC SUNRISE TO SUNSET  
ALL MOTOR VEHICLES EXCLUDED  
NO OVERNIGHT CAMPING  
HUNTING & TRAPPING PROHIBITED  
NO SWIMMING  
ALL PLANTLIFE PROTECTED  
FIRES BY PERMIT ONLY



- Key:**
- Park Boundary
  - Gate
  - Wildlife Area
  - View
  - Picnic Table
  - Observation Tower
  - Field
  - Paved Bike/Foot Paths
  - Secondary Trails (foot only)
  - Foot Trails
  - Brooks
  - Pond
  - Kettle Hole
  - Dead End

john p. richardson  
august 1985

ORDNANCE AND EXPLOSIVES WASTE  
ARCHIVES SEARCH REPORTS  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX M

ARCHIVES SEARCH REPORT CORRESPONDENCE

(Not Used)

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

APPENDIX N

REPORT DISTRIBUTION LIST

APPENDIX N

REPORT DISTRIBUTION LIST

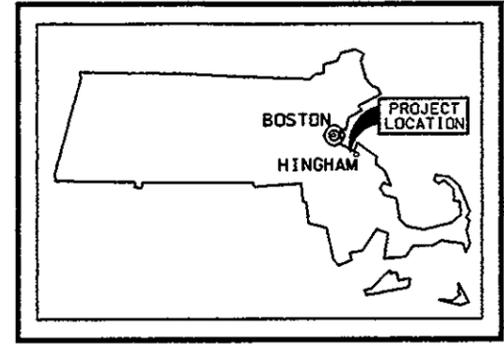
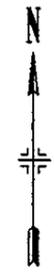
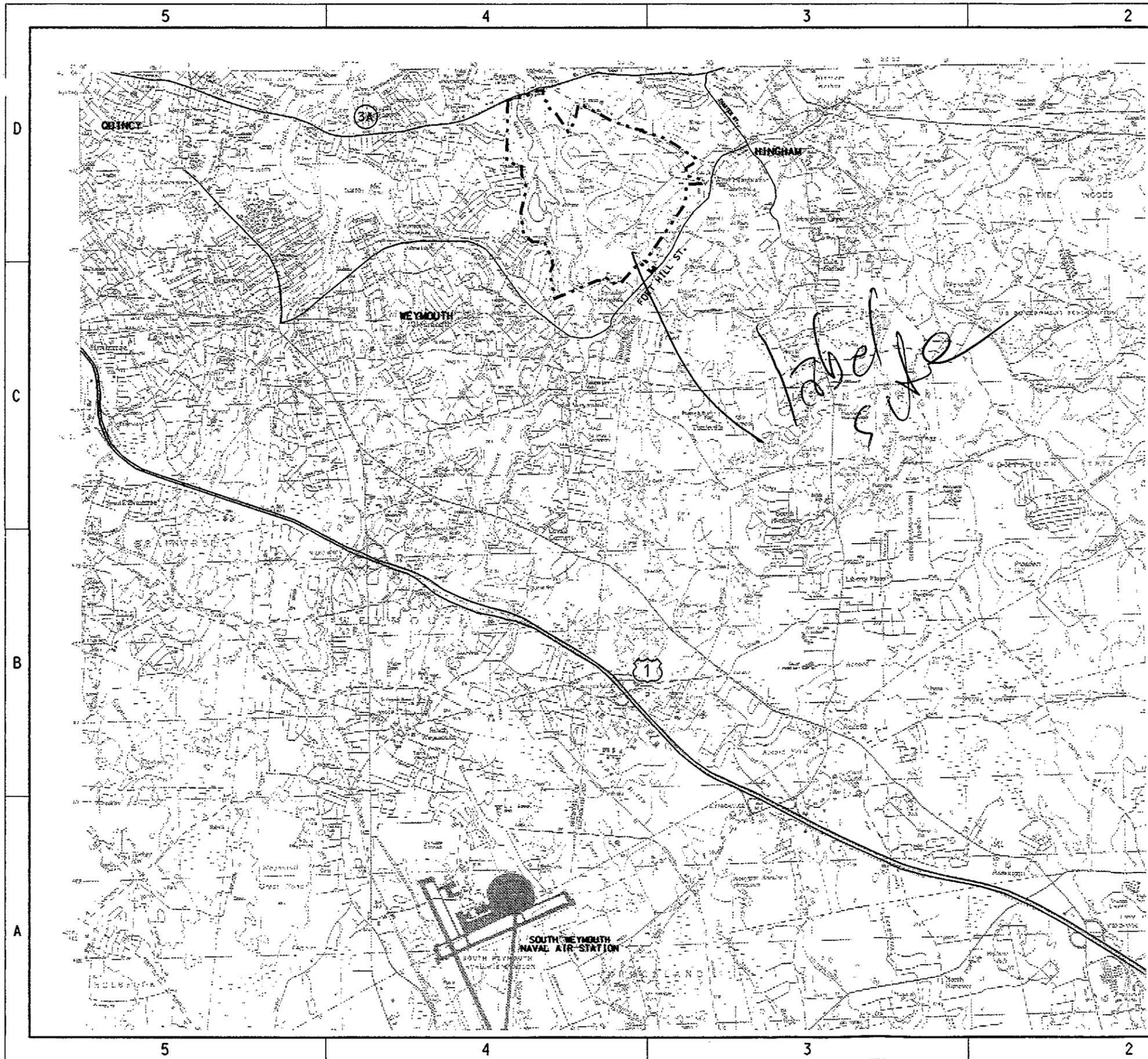
|  | NO. COPIES |    |     |
|--|------------|----|-----|
|  | I          | II | III |
| Commander, U.S. Army Corps of Engineers<br>ATTN: CEMP-RF (Coppola)<br>Pulaski Building<br>20 Massachusetts Avenue NW<br>Washington, DC 20313-1000                        | 2          | -  | -   |
| Commander, U.S. Army Corps of Engineers,<br>Huntsville Division<br>ATTN: CEHND-PM-OT (Britton)<br>P.O. Box 1600<br>Huntsville, Al 35807-4301                             | 3          | -  | -   |
| Commander, U.S. Army Corps of Engineers,<br>North Central Division<br>ATTN: CENCD-PE-ED-TE (Warda)<br>111 North Canal Street, 12th Floor<br>Chicago, Illinois 60606-7206 | 1          | -  | -   |
| Commander, U.S. Army Defense<br>Ammunition Center and School<br>ATTN: SMCAC-ES<br>Savanna, Illinois 61074-9639   | 3          | -  | -   |
| Commander, U.S. Army Health Clinic<br>ATTN: HSXP-FS-RIA (Platt)<br>Rock Island Arsenal<br>Rock Island, Illinois 61201  | -          | 1  | -   |

REPORT DISTRIBUTION LIST

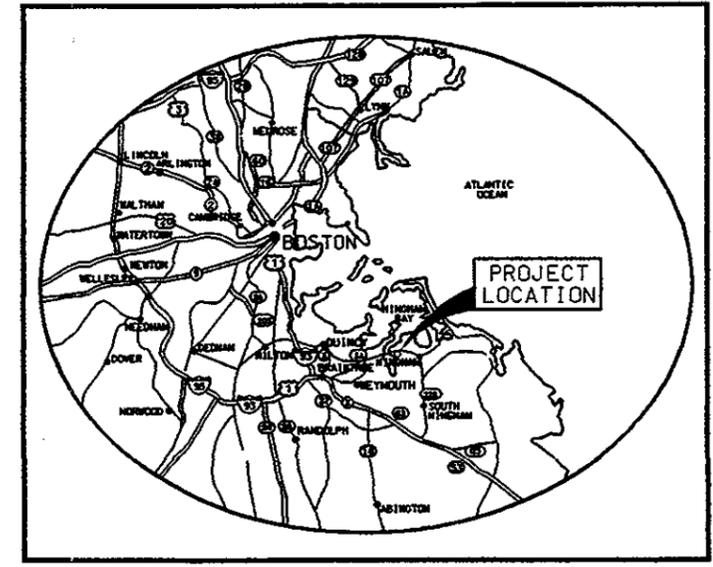
|  | I | II | III |
|--|---|----|-----|
| Commander, U.S. Army Corps of Engineers,<br>New England Division<br>ATTN: CENED-RE-AM (Laster)<br>424 Trapelo Road<br>Waltham, MA 02254-9149 | 3 | -  | -   |
|  |   |    |     |
| Commander, U.S. Army Corps of Engineers,<br>Rock Island District<br>P.O. Box 1600<br>Rock Island, IL 61201                                   |   |    |     |
| Attn: CENCR-   |   |    |     |
| ED   | - | -  | 1   |
| ED-D   | - | -  | 1   |
| ED-DN  | 3 | -  | -   |
| ED-G   | - | -  | 1   |
| ED-H   | - | -  | 1   |
| SO   | - | -  | 1   |
| RE   | - | -  | 1   |
| PD   | - | -  | 1   |

ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
HINGHAM NAVAL AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
PROJECT NUMBER D01MA002204

REPORT PLATES



STATE MAP



VICINITY MAP

LEGEND

- SITE BOUNDARY
- ROADS
- 1 INTERSTATE HIGHWAY
- 3A STATE HIGHWAY

2000 1000 0 2000 4000 FT  
SCALE: 1" = 2000'

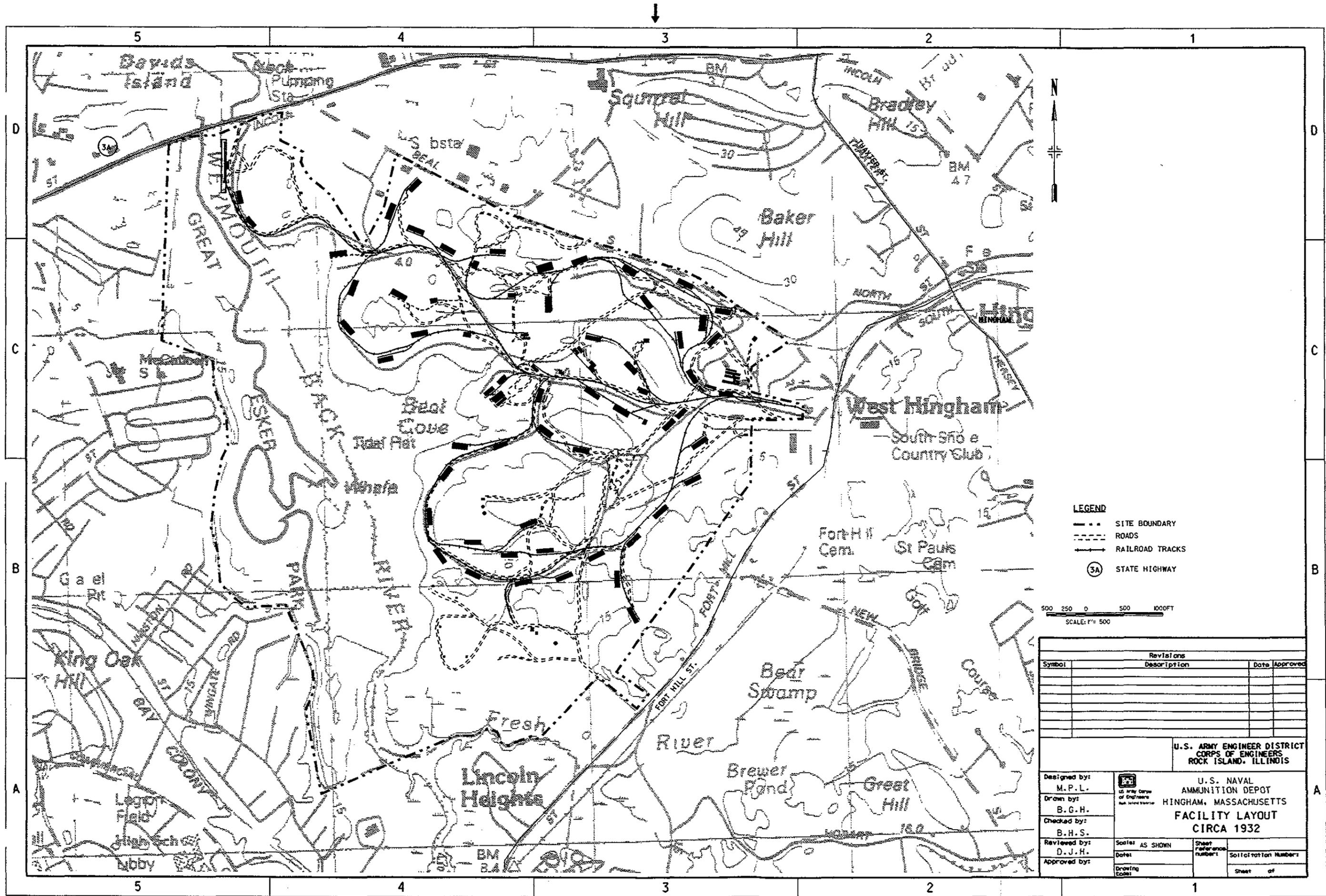
| Revisions |             |               |
|-----------|-------------|---------------|
| Symbol    | Description | Date Approved |
|           |             |               |
|           |             |               |
|           |             |               |
|           |             |               |

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
ROCK ISLAND, ILLINOIS

Designed by:  
M.P.L.  
Drawn by:  
B.G.H.  
Checked by:  
B.H.S.  
Reviewed by:  
D.J.H.  
Approved by:

U.S. NAVAL  
AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
**SITE MAP**  
Scale: AS SHOWN  
Sheet Reference Number:  
Soil Station Numbers:  
Drawing Code:  
Sheet of





- LEGEND**
- SITE BOUNDARY
  - - - ROADS
  - +— RAILROAD TRACKS
  - (3A) STATE HIGHWAY

500 250 0 500 1000 FT  
SCALE: 1" = 500'

| Revisions |             |               |
|-----------|-------------|---------------|
| Symbol    | Description | Date Approved |
|           |             |               |
|           |             |               |
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U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
ROCK ISLAND, ILLINOIS

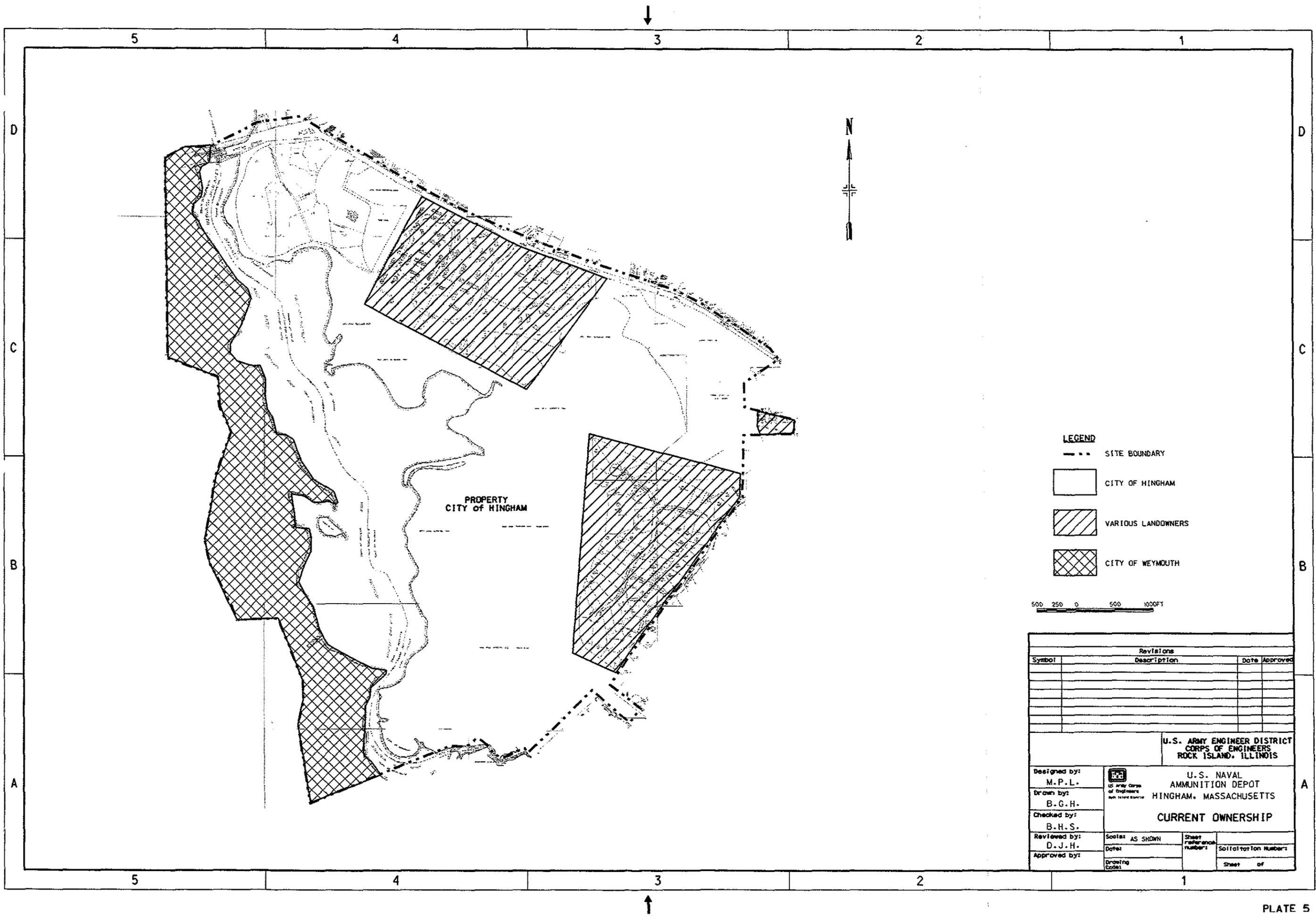
Designed by:  
M.P.L.  
Drawn by:  
B.G.H.  
Checked by:  
B.H.S.  
Reviewed by:  
D.J.H.  
Approved by:

U.S. NAVAL  
AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS  
**FACILITY LAYOUT  
CIRCA 1932**

Scales: AS SHOWN  
Date: \_\_\_\_\_  
Drawing Code: \_\_\_\_\_  
Sheet Reference Number: \_\_\_\_\_  
Solicitation Number: \_\_\_\_\_  
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**LEGEND**

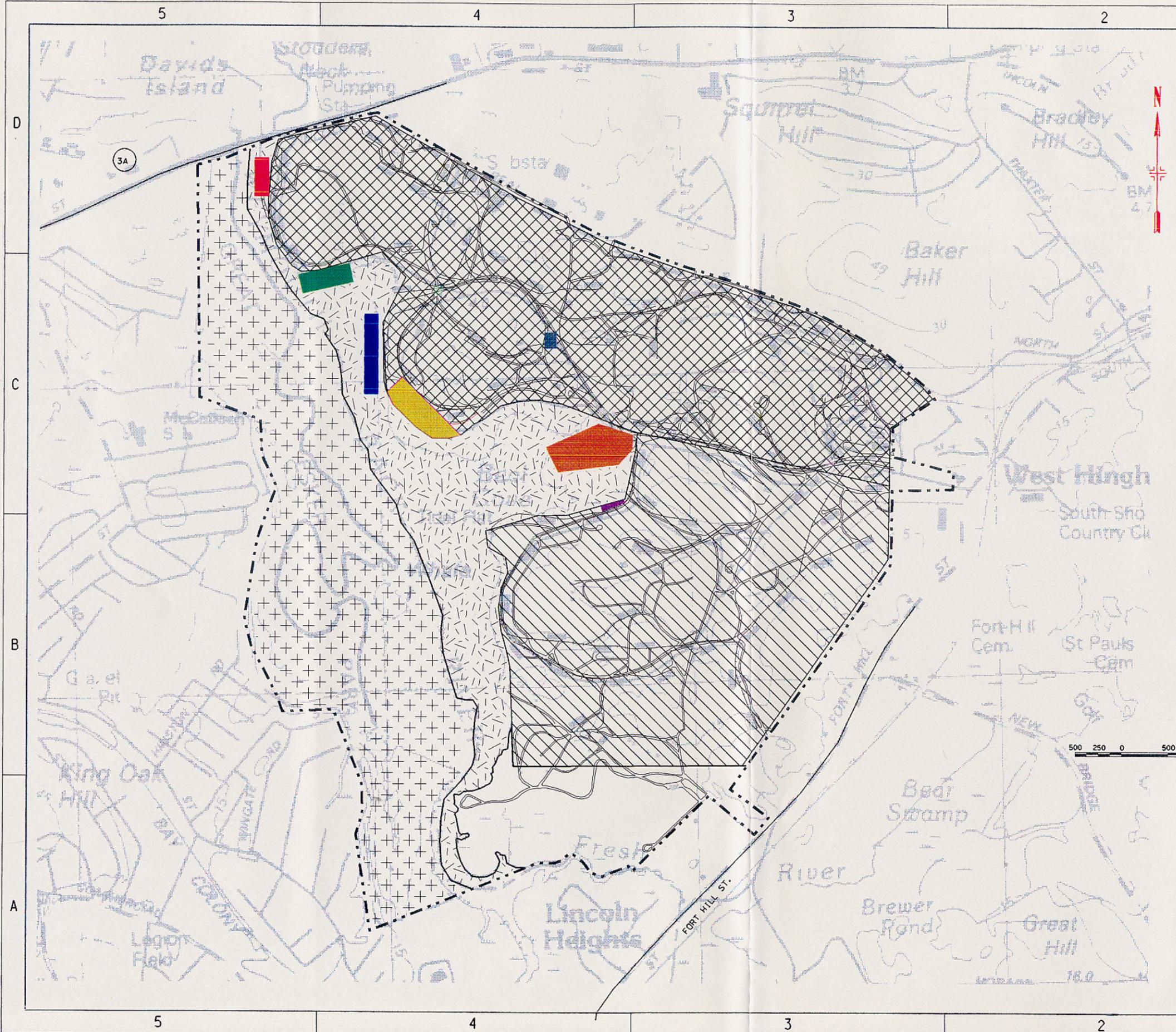
- SITE BOUNDARY
- CITY OF HINGHAM
- ▨ VARIOUS LANDOWNERS
- ▩ CITY OF WEYMOUTH



| Revisions |             |               |
|-----------|-------------|---------------|
| Symbol    | Description | Date Approved |
|           |             |               |
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|   |   |                                     |
|---|---|-------------------------------------|
| <b>U.S. ARMY ENGINEER DISTRICT<br/>CORPS OF ENGINEERS<br/>ROCK ISLAND, ILLINOIS</b> |   |                                     |
| Designed by:<br>M. P. L.  | <br>U. S. NAVAL<br>AMMUNITION DEPOT<br>HINGHAM, MASSACHUSETTS | <b>CURRENT OWNERSHIP</b>            |
| Drawn by:<br>B. G. H.   |   |                                     |
| Checked by:<br>B. H. S.   | Reviewed by:<br>D. J. H.                                      |                                     |
| Approved by:  | Scale: AS SHOWN<br>Date:                                      | Sheet Reference Number:<br>Sheet of |

12-JAN-1995 10:00  
 /usr3/cv02/pr0/act1/dp80/dp80a005.dgn



| AREA   | FORMER USAGE          | DEW PRESENCE   | ACRES  |
|--|-----------------------|----------------|--------|
| <span style="color: red;">■</span> A   | NORTH PIER            | CONTAMINATED   | 1.4*   |
| <span style="color: blue;">■</span> B  | SOUTH PIER            | CONTAMINATED   | 2.8*   |
| <span style="color: orange;">■</span> C  | INDUSTRIAL AREA       | POTENTIAL      | 7.3*   |
| <span style="color: green;">■</span> D   | FURNACE AREA          | POTENTIAL      | 2.5*   |
|  | E MAGAZINE AREA       | UNCONTAMINATED | 295*   |
|  | F MAGAZINE AREA       | UNCONTAMINATED | 250*   |
|  | G WEYMOUTH BACK RIVER | POTENTIAL      | 119*   |
|  | H OD BUFFER AREA      | UNCONTAMINATED | 237    |
| <span style="color: darkblue;">■</span> I  | CHEMICAL MAGAZINE     | UNCONTAMINATED | .5*    |
| <span style="color: yellow;">■</span> J  | BURIAL AREA           | POTENTIAL      | 4.6*   |
| <span style="color: purple;">■</span> K  | DUMP AREA             | POTENTIAL      | .30*   |
| <span style="border: 1px solid black; width: 15px; height: 15px; display: inline-block;"></span> L | REMAINING AREAS       | UNCONTAMINATED | 69.86* |
| TOTAL ACREAGE  |                       |                | 990.26 |

\* APPROXIMATED ACREAGE

**LEGEND**

|  |                       |
|--|-----------------------|
|  | PROJECT AREA BOUNDARY |
|  | SITE BOUNDARY         |
|  | ROADS                 |
|  | RAILROAD TRACKS       |
|  | STATE HIGHWAY         |

| Revisions |             |      |          |
|-----------|-------------|------|----------|
| Symbol    | Description | Date | Approved |
|           |             |      |          |
|           |             |      |          |
|           |             |      |          |
|           |             |      |          |

**U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
ROCK ISLAND, ILLINOIS**

Designed by: M.P.L.  
 Drawn by: B.G.H.  
 Checked by: B.H.S.  
 Reviewed by: D.J.H.  
 Approved by: \_\_\_\_\_

U.S. NAVAL  
AMMUNITION DEPOT  
HINGHAM, MASSACHUSETTS

**PROJECT AREAS**

|                 |                         |                     |
|-----------------|-------------------------|---------------------|
| Scale: AS SHOWN | Sheet reference number: | Soil Cation Number: |
| Date:           |                         |                     |
| Drawing Code:   |                         | Sheet of            |

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