

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE November 1989		3. REPORT TYPE AND DATES COVERED Planning Assistance Report- Sec.72
4. TITLE AND SUBTITLE Falmouth Inner Harbor & Woods Hole Harbor, Planning Assistance Report, Coastal Structures Inventory			5. FUNDING NUMBERS	
6. AUTHOR(S) U.S. Army Corps of Engineers New England Division				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Army Corps of Engineers, New England Division Basin Management Branch 424 Trapelo Road Waltham, MA 02254-9149			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)			10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES Public Law 93-251, Section 22 Report for Commonwealth of Massachusetts; cover title reads: Woods Hole and Falmouth Harbors, Woods Hole and Falmouth, MA.				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release Distribution is unlimited			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) This report inventories the location, ownership, general construction type, permit number, and function of existing shoreline and shallow water structures in Falmouth and Woods Hole Harbors, Massachusetts, the two largest and the most navigable harbors in the Falmouth area. In addition to identifying coastal and nearshore structures, it documents the shoreline boundaries for Falmouth and Woods Hole Harbors as well as existing and proposed Federal and State Projects in the immediate area. Also, this report gives a description of the economy and a general history of the development of these areas.				
14. SUBJECT TERMS Falmouth Harbor; Woods Hole Harbor; coastal structures; shores; ports (facilities) harbors			15. NUMBER OF PAGES 52 leaves	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified		18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified		19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified
20. LIMITATION OF ABSTRACT				

19980206 120

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Planning Assistance Report
Coastal Structures Inventory

Woods Hole and Falmouth Harbors

Woods Hole and
Falmouth, Massachusetts

November 1989



**US Army Corps
of Engineers**
New England Division

**Department of the Army
New England Division, Corps of Engineers
Waltham, Massachusetts**

The US Army Corps of Engineers, New England Division, prepared this report at the request of the Massachusetts Department of Environmental Quality Engineering under the provisions of Section 22 of the Water Resources Development Act of 1974 (Planning Assistance to the States) as amended. It supports the State of Massachusetts' efforts to inventory all existing Massachusetts' shoreline and nearshore structures. The report details the location, ownership, general construction type, permit number, and function of these structures in Falmouth and Woods Hole Harbors. Details were verified by field inspections in June and July, 1989 and therefore present a comprehensive picture of present conditions in these Harbors.

For Federal, State and Local planners, the report provides information from a variety of sources in a single volume. In addition to identifying coastal and nearshore structures, it documents the shoreline boundaries for Falmouth and Woods Hole Harbors as well as existing and proposed Federal and State Projects in the immediate area. Questions or comments concerning this report should be directed to:

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BACKGROUND

AUTHORITY

PURPOSE

This report inventories the location and function of existing shoreline and shallow water structures in Falmouth and Woods Hole Harbors, the two largest and the most navigable harbors in the Falmouth area. Navigational facilities in the harbor areas are shown on Plates 1, 2 and 3. Additionally, the report provides a description of the economy and a general history of the development of these areas.

DESCRIPTION

4



1

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Major growth in the area did not occur until 1910. One factor stimulating this growth has been the increase in available, good transportation from places like Boston, Worcester and even New York. The completion of Routes 28, I-495, I-195, and the newly completed Route 25, all made Falmouth, Woods Hole, and Cape Cod in general more accessible.

Another factor in the area's growth has been the increase in year round jobs in the scientific and service industries. As more people settle in Falmouth year round the service industry is able to grow and cater to this population. Tourism is the basis of the economy and although it is gradually establishing itself as a year round commodity, summer is still the most profitable time of year for the service industry. The year round population is little more than 26,000 residents whereas the visitors in the summer number more than 40,000. There are approximately 16,000 dwelling units of which 40% are summer only. Agriculture, forestry, and fishing, formerly the principal source of employment, now employ less than 2% of the work force and there is very little manufacturing.

In great respect due to this diverse population, Falmouth offers many amenities found only in larger cities and towns. It has its own hospital, an artists guild, thirteen houses for religious denominations, a music conservatory, sports center with an ice rink, and an excellent public school system. In both Falmouth and Woods Hole harbors are numerous good restaurants, bars, hotels, and shops. The area also has 68 miles of seashore and 10 public, town owned beaches.



INLAND LAND USAGE

Inland of the harbor areas is mostly residential. Falmouth does boast large tracts of Conservation and Park land for recreation and wetland purposes. Among these are the Coonamessett River Reservation, 114 acres of bogs which was acquired by the town in 1971; the Shining Sea bikeway, a three mile stretch of abandoned railroad bed; the small Falmouth Historical Park and the Village Green; and 387 acres at Beebe Woods. Additionally, the Massachusetts' Department of Environmental Management runs the 334 acre Washburn Island State Park.

There are also scattered inns, hotels and shopping areas throughout the area as tourism is not confined to the coastal areas. The cultural side of life in Falmouth has long been very important. The Falmouth Playhouse attracts tourists and residents alike to its theater and concerts. Another theater is the Highfield Theater in the Beebe Woods reservation.

TRANSPORTATION

Falmouth and Woods Hole Harbors are both accessible by Route 28 over the Bourne Bridge now directly connected to Interstate Route 495 via State Highway 25 placing the harbors about one and one half hours from Boston, Massachusetts. Providence, Rhode Island is about the same distance via Interstate Route 195 and State Highway 25.

There is an airport in Hyannis, about 30 minutes from Falmouth, which services the Cape Islands and Boston. Boston Logan International Airport is one and one half hours away with world wide connections. New Bedford, Massachusetts and Warwick, Rhode Island airports are about the same distance. These service many national carriers, feeders and air taxis. Falmouth has a municipal airport for private carriers.

Both Falmouth and Woods Hole are directly accessible from Vineyard Sound and Nantucket Sound and the harbors service commercial boats from Buzzards bay and New Bedford. Since the opening of the Cape Cod Canal these harbors are used less by commercial shippers from other areas.



Falmouth Inner Harbor

Authority

Work Authorized

RHA - 1948

**Dredging an entrance channel
10 feet deep, 100 feet wide
from Nantucket Sound to the
Harbor; dredging 17 acres
in the Inner Harbor to the
same depth plus repair
jetties at the Harbor entrance**

3 June 1896

RHA - 1896

**Existing Project - channel
13 feet deep, 300 feet wide
Modifications and Extensions**

2 August 1882

RHA - 1882

3 March 1879

RHA - 1879

Channel 10 feet deep, 130 feet wide

30 August 1952

RHA - 1952

Breakwater - completed by others

March 1905

RHA - 1905

Channel 12 feet deep, 150 feet wide and 1,600 feet long from Vineyard Sound to the Coast Guard Wharf at NW side of the Harbor, with a turning bas12 feet deep, 250 feet wide in front of the wharf.

LIST OF FACILITIES AND STRUCTURES

Table 1, below, identifies the major port facilities in Falmouth and Woods Hole. This list corresponds to the aerial photograph identifications made on Plates 4 and 5. The database in the appendix supplements this information by listing address, location and pertinent remarks for the facilities. Corps of Engineers and Commonwealth of Massachusetts DEQE permits issued after 1978 are included in the remarks section of the Appendix. The absence of either permit from the database does not mean that a required permit has not been issued. Information on Corps of Engineers and Massachusetts DEQE permits issued prior to 1978 has been archived and retrieval of that information was beyond the scope of this study effort. No attempt was made to identify corresponding local permits.

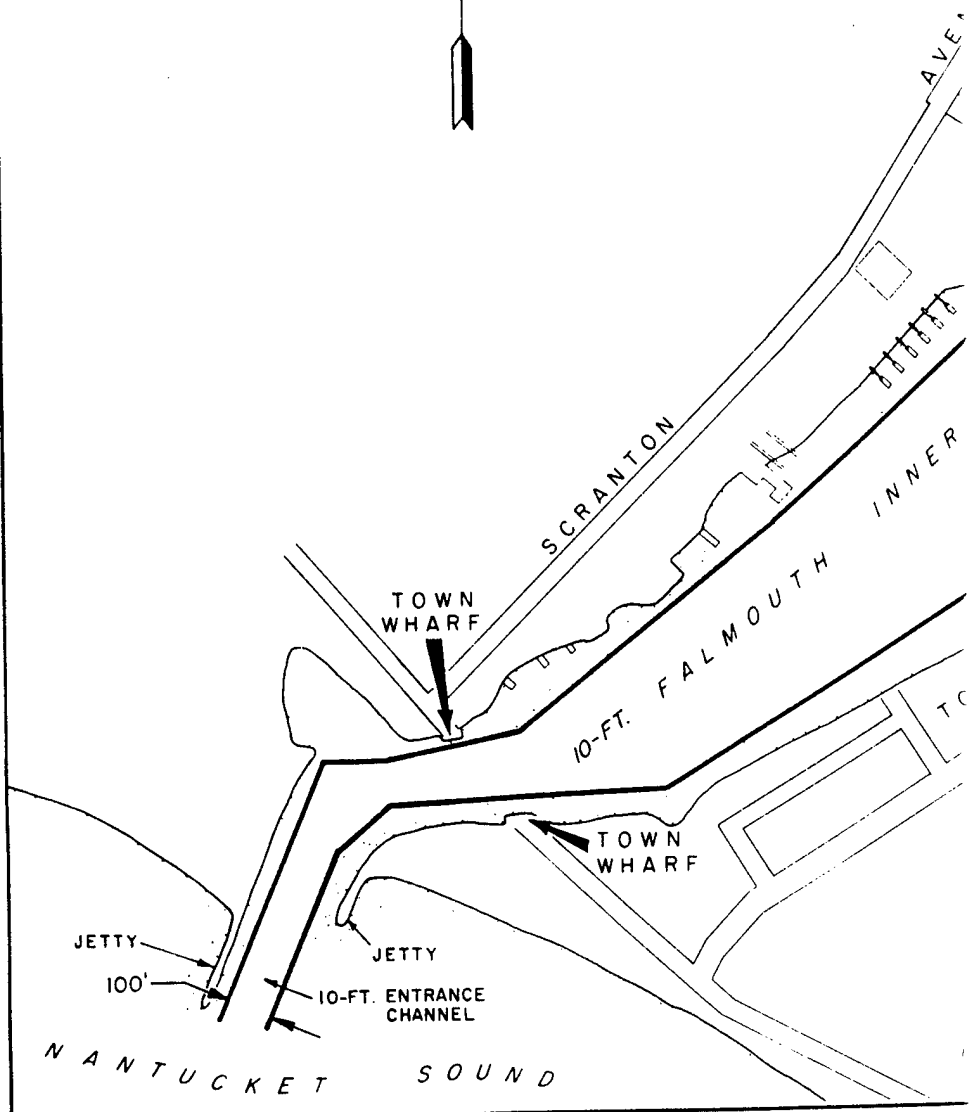
TABLE 1
Major Port Facilities and Structures
Falmouth Harbor

<u>Map #</u>	<u>Owner</u>	<u>Facility/Structure</u>
01	Town of Falmouth	Town Landing and Jetty
02	Falmouth Yacht Club	Stone Bulkhead
03	William Gallagher	Residence
04	John Morley	Residence
05	Town of Falmouth	Beachfront Park
06	MacDougall's Marina	Bulkheads for Marina
07	Boatyard Condo. Development	Bulkhead
08	Studio Motel	Finger Piers
09	P&J's Realty Trust	Bulkhead
10	James Dicostanzo	Bulkhead
11	Peter Mareb	Bulkhead
12	Rosemarie Sarno	Bulkhead
13	Island Commuter Corp.	Bulkhead and Landing
14	Douglas Pool	Bulkheads for Marina
15	Town of Falmouth	Town Landing
16	Town of Falmouth	Bulkhead
17	George L. Barbour	Bulkhead
18	Pier 37 Associates	Bulkhead
19	George L. Barbour	Bulkhead
20	Town of Falmouth	Bulkhead and slips
23	Falmouth Marine	Bulkhead and slips
24	Falmouth Marine	Bulkhead and slips
25	Private Residence	Bulkhead and dock
26	Private Residence	Seawall and Revetment
27	Falmouth Yacht Sales	Seawall and Bulkhead
29	Commonwealth of Massachusetts	Jetty and Bulkhead

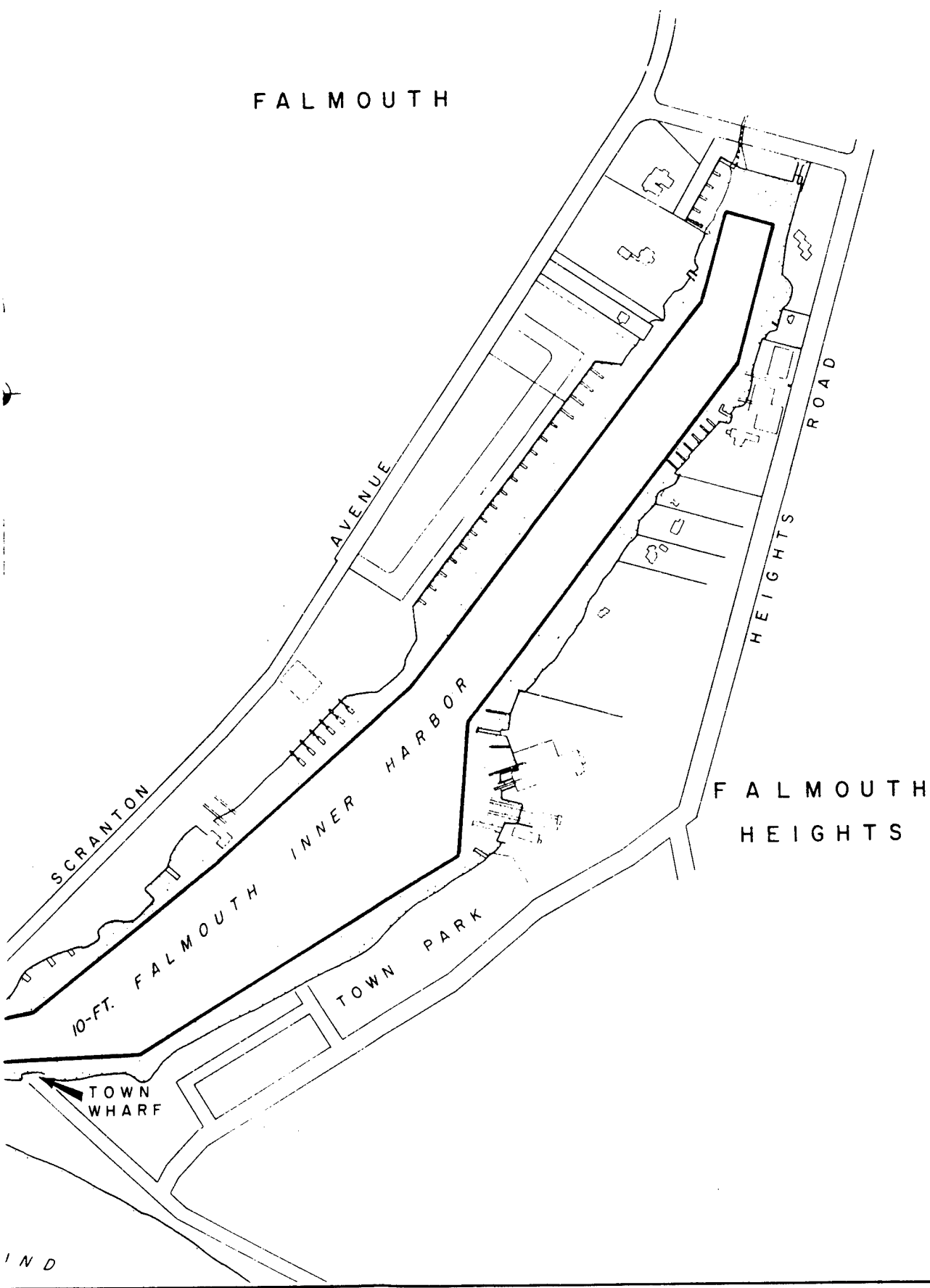
Woods Hole Harbor

<u>Map #</u>	<u>Owner</u>	<u>Facility</u>
01	Town of Woods Hole	Stone Jetty and Pier
02	Town of Woods Hole	Stone Jetty and Pier
03	Private Residence	Wood Pier and Pilings
04	Town of Falmouth	Rip Rap
05	Private Residence	Stone Jetty
06	Town of Falmouth	Sea Wall
07	Town of Falmouth	Sea Wall
08	Thomas H. Balantine	Bulkhead and Pier
09	Town of Woods Hole	Town Landing, Bulkhead , Pier
10	United States Coast Guard	Wharf
11	Charles M. Crane	Stone Jetty and Dock
12	Max M. Burger	Pier and Pilings
13	Town of Falmouth	Rip Rap
14	Private Ownerships	Shoreline
15	Silvia Crane	Stone Jetty and Dock
16	Woods Hole Steamship Authority	Wharf
17	Naushon Trust	Wooden Bulkhead and Pier
18	William A. Estes	Bulkhead
19	Fishmonger's Restaurant	Bulkhead and Pier
20	Woods Hole Oceanographic Inst.	Steel Bulkhead
21	Marine Biology Laboratory	Wharf
22	Town of Woods Hole	Sea Wall
23	Town of Woods Hole	Sea Wall containing Park
24	U.S. Fish Commission	Stone Jetties and Dolphin Piers
25	Town of Woods Hole	Town Landing and Jetty
26	Woods Hole Marina	Wooden Piers and Pilings
27	Town of Woods Hole	Town Landing
28	Private Residence	Stone Bulkhead
29	Private Residence	Stone Jetty and Dock
40	Woods Hole Oceanographic Inst.	Bulkhead
41	Private Residence	Bulkhead
42	Woods Hole School Dept.	Sea Wall
43	Private Residence	Stone Bulkhead
44	Marine Biology Laboratory	Stone Wharf and Timber Piers
45	Town of Woods Hole	Town Landing
46	Shirley Baker	Wooden Bulkhead
47	William Crowley	Wooden Bulkhead
48	Marine Biology Laboratory	Wooden Bulkhead

FALMO



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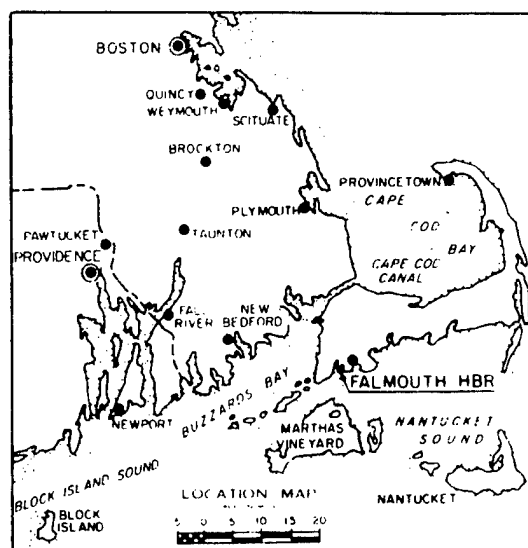
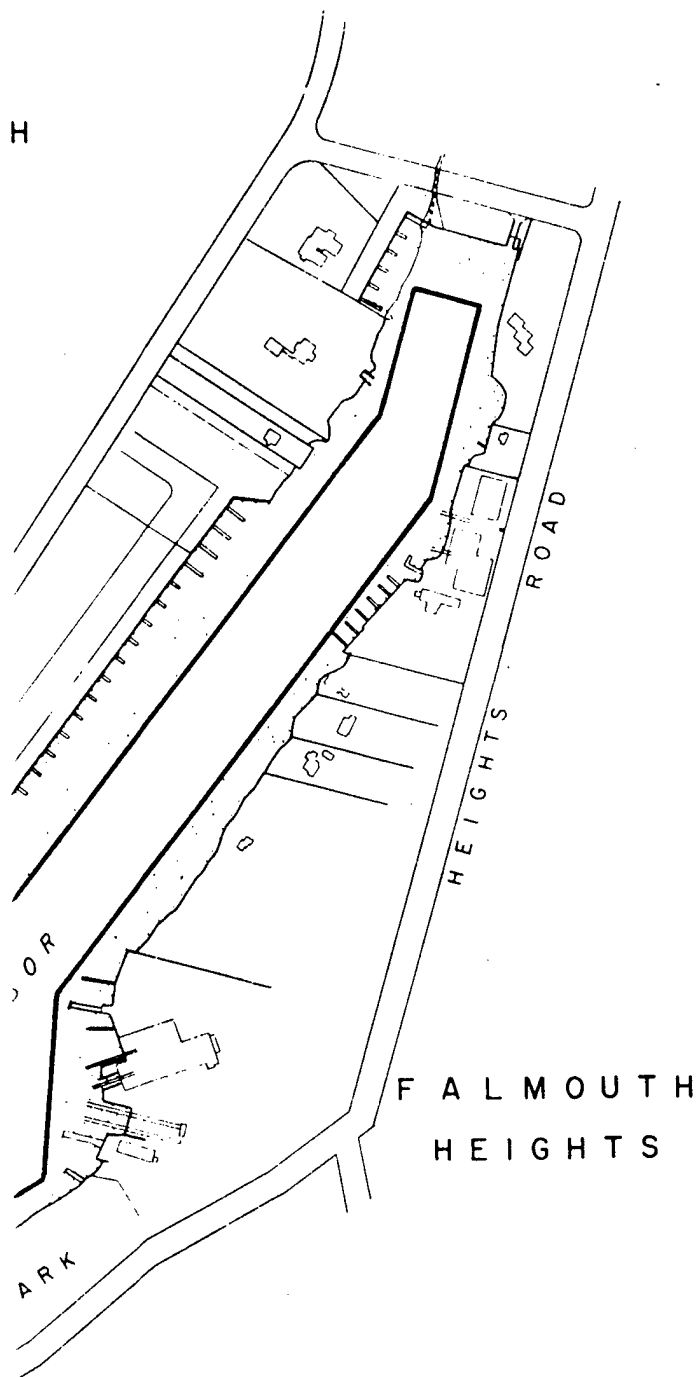
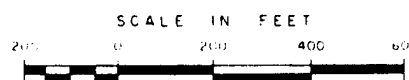
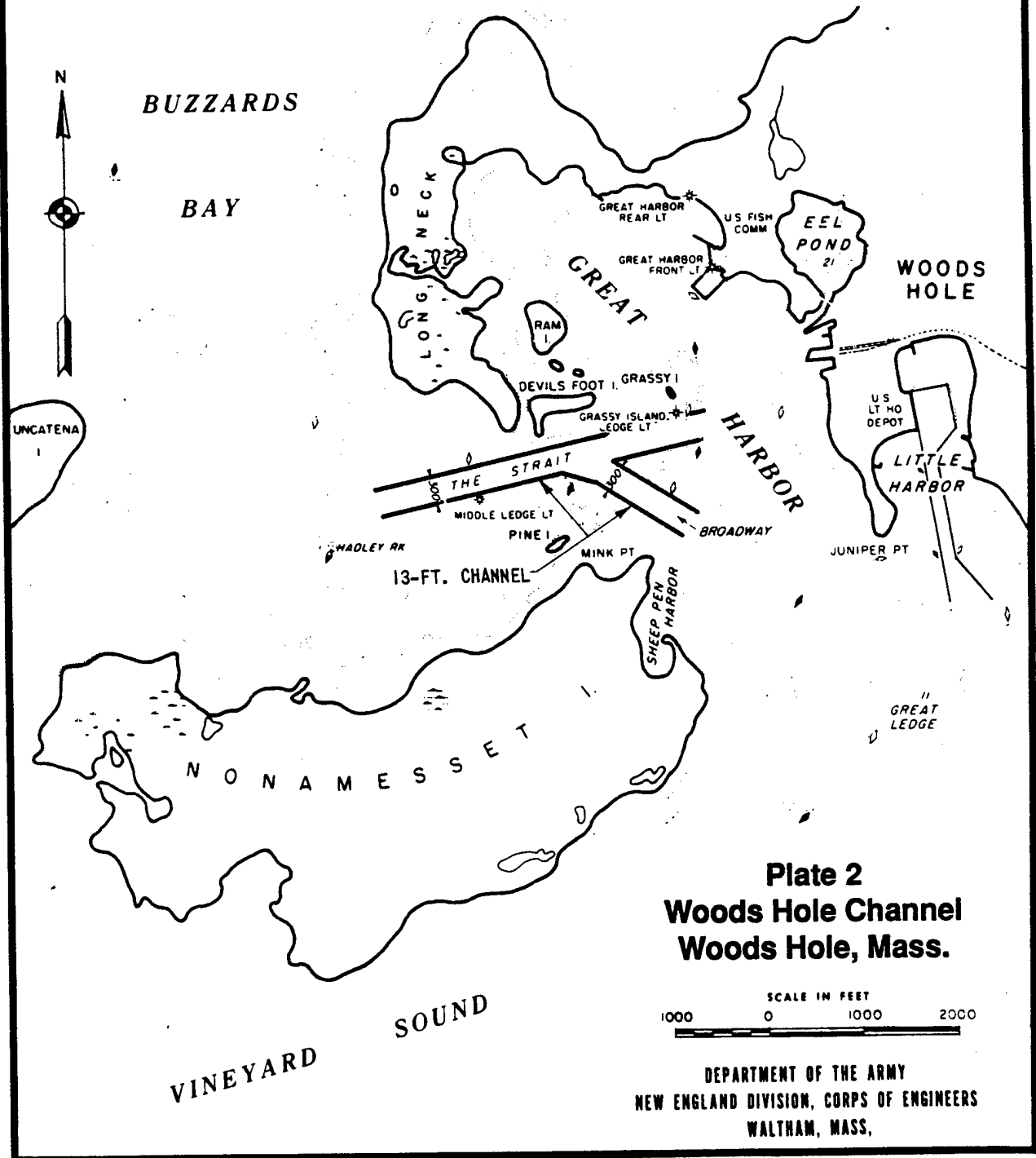
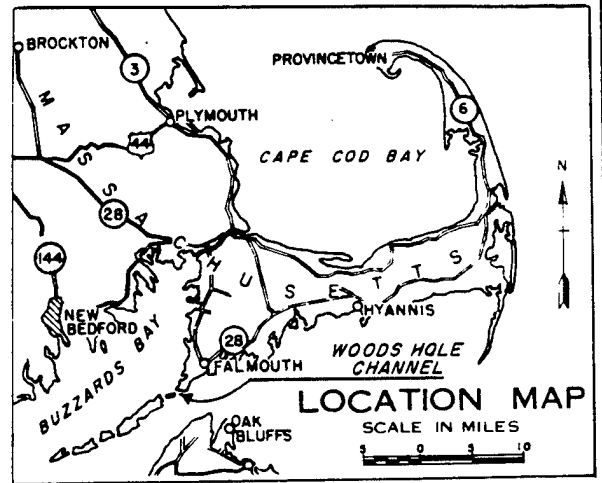
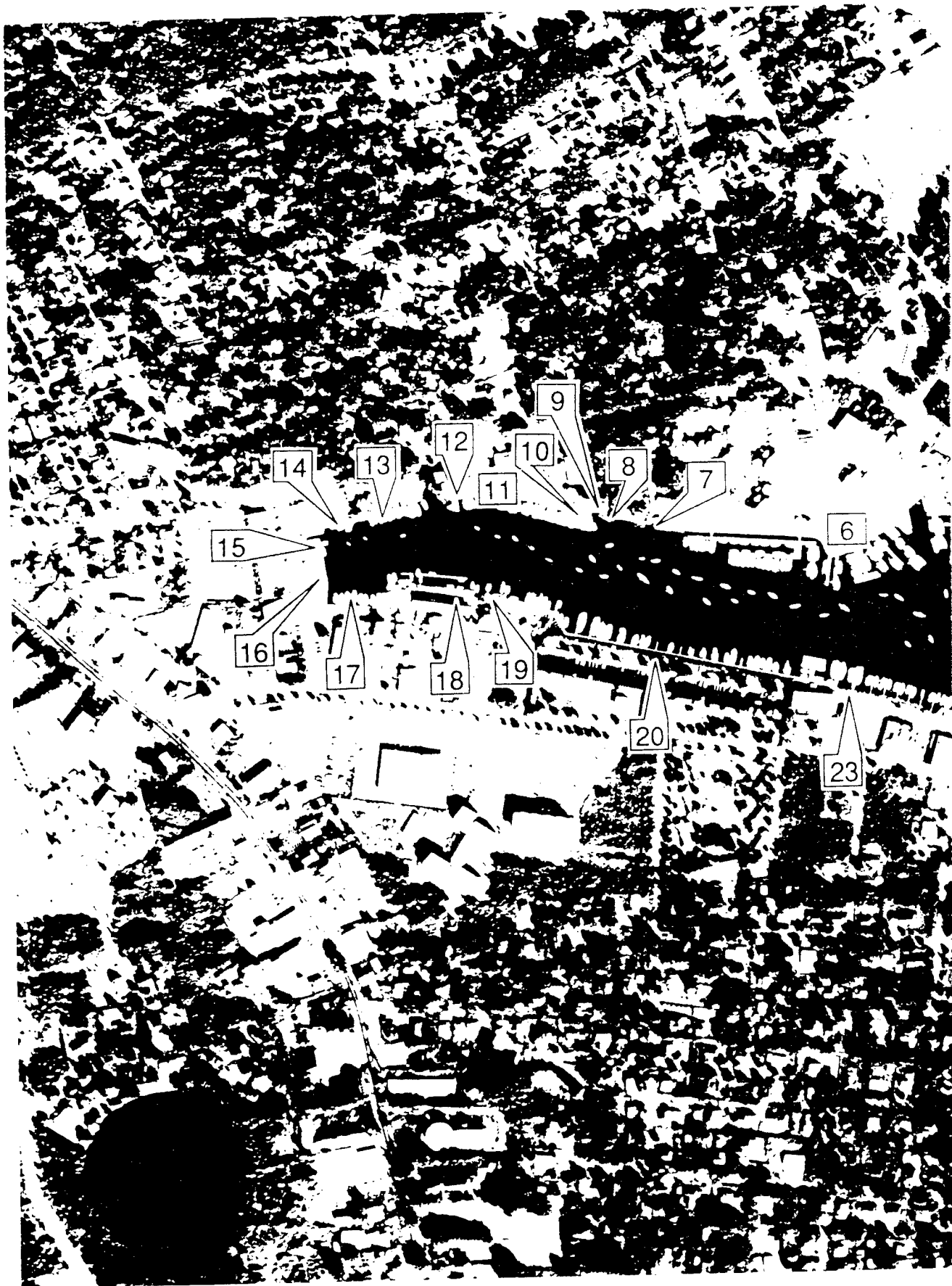


Plate 1
Falmouth Harbor
Falmouth, Mass.



DEPARTMENT OF THE ARMY
 NEW ENGLAND DIVISION, CORPS OF ENGINEERS
 WALTHAM, MASS.







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Planning Assistance Report
Coastal structures inventory
Falmouth, Massachusetts

Key

1 Coastal structure site

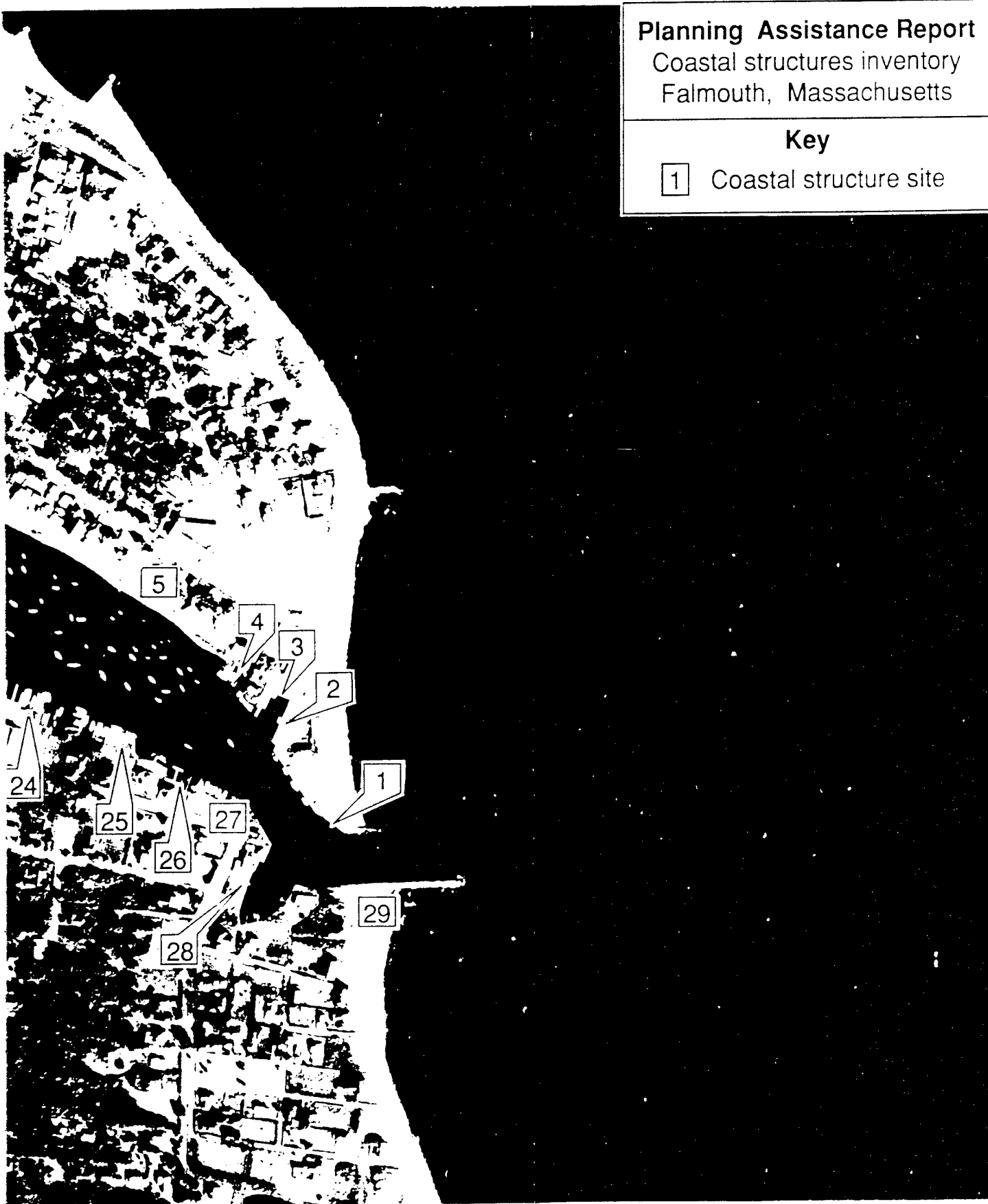
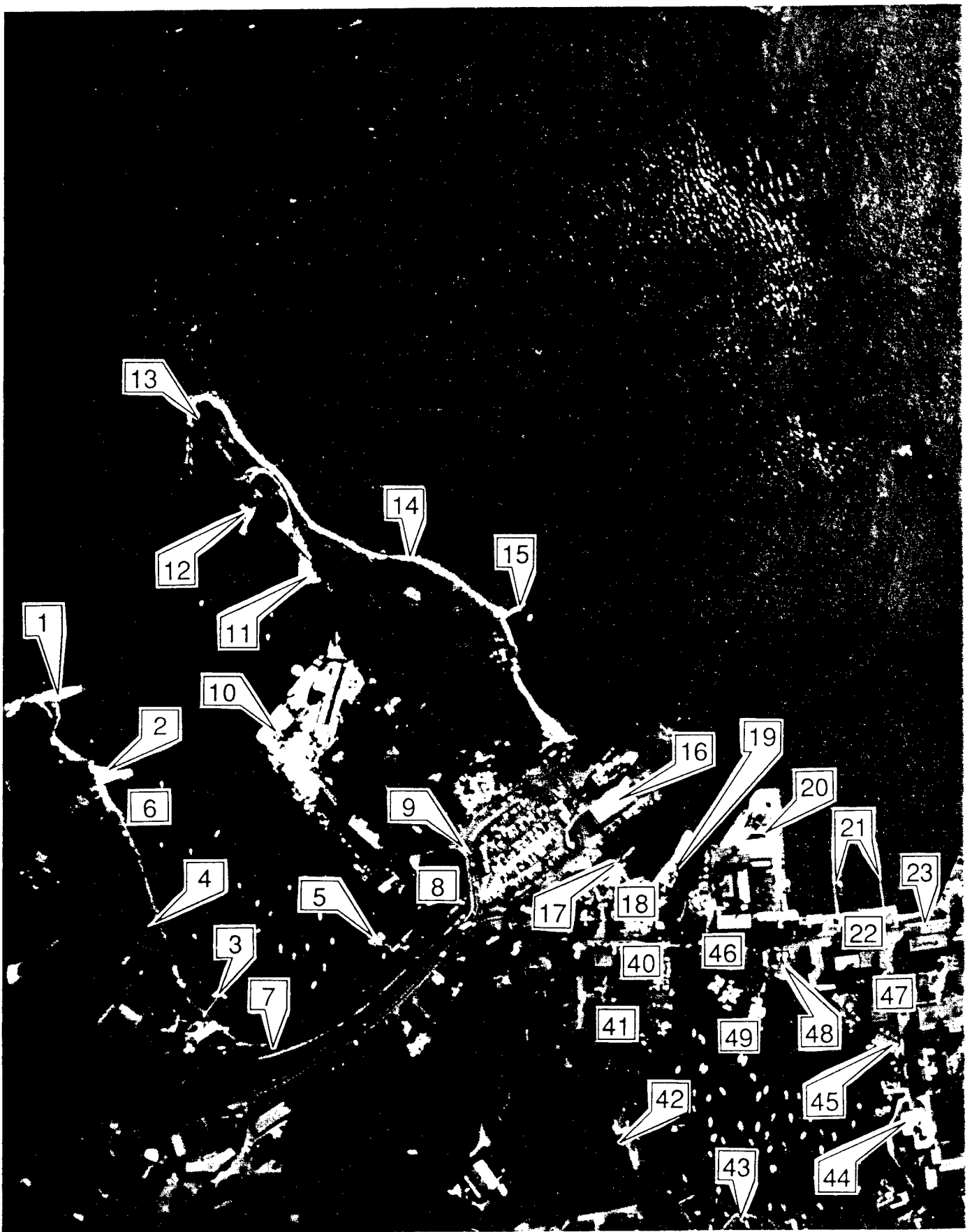
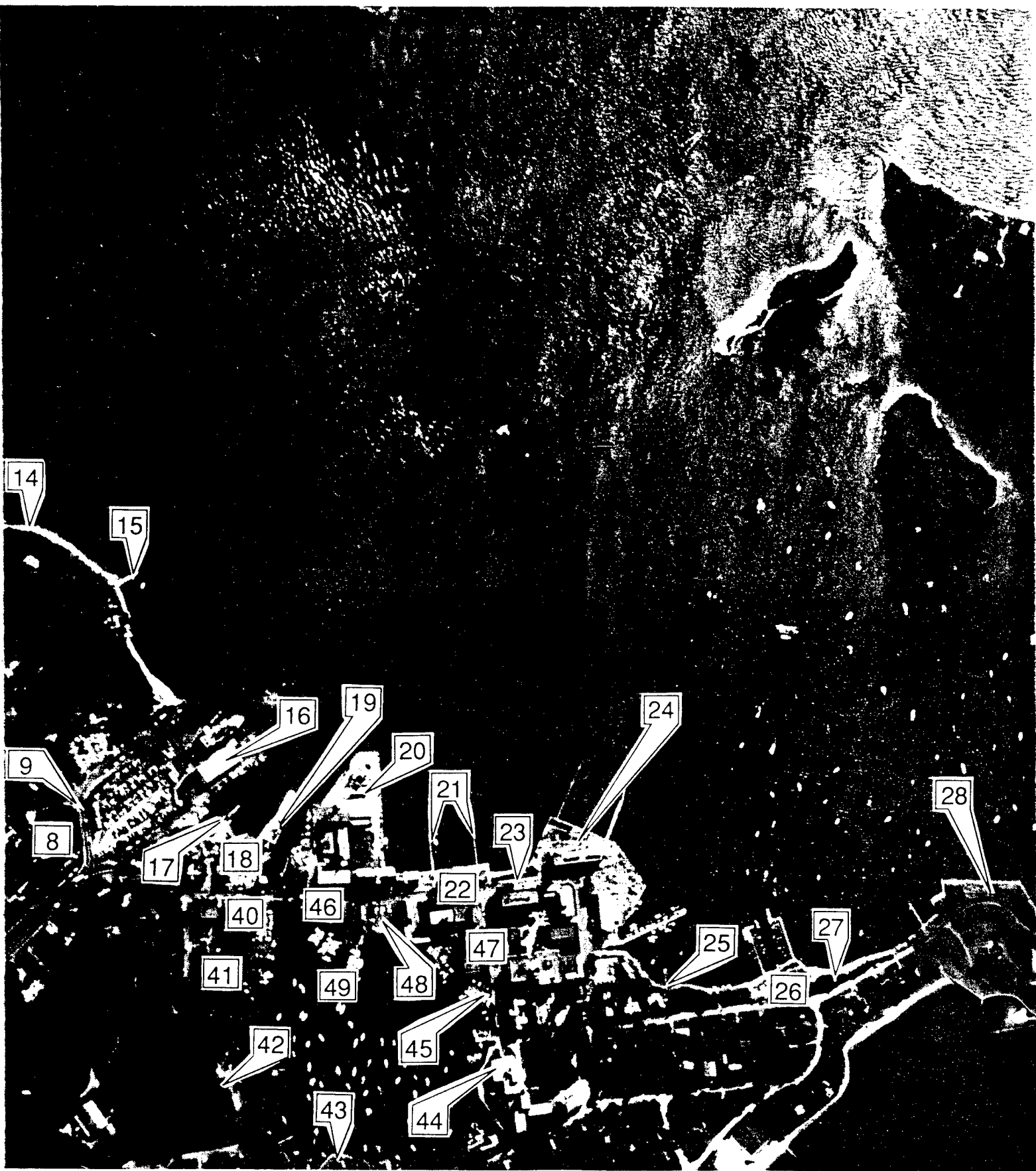


Plate 4
Falmouth Harbor

5





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Planning Assistance Report
Coastal structures inventory
Woods Hole, Massachusetts

Key

1 Coastal structure site

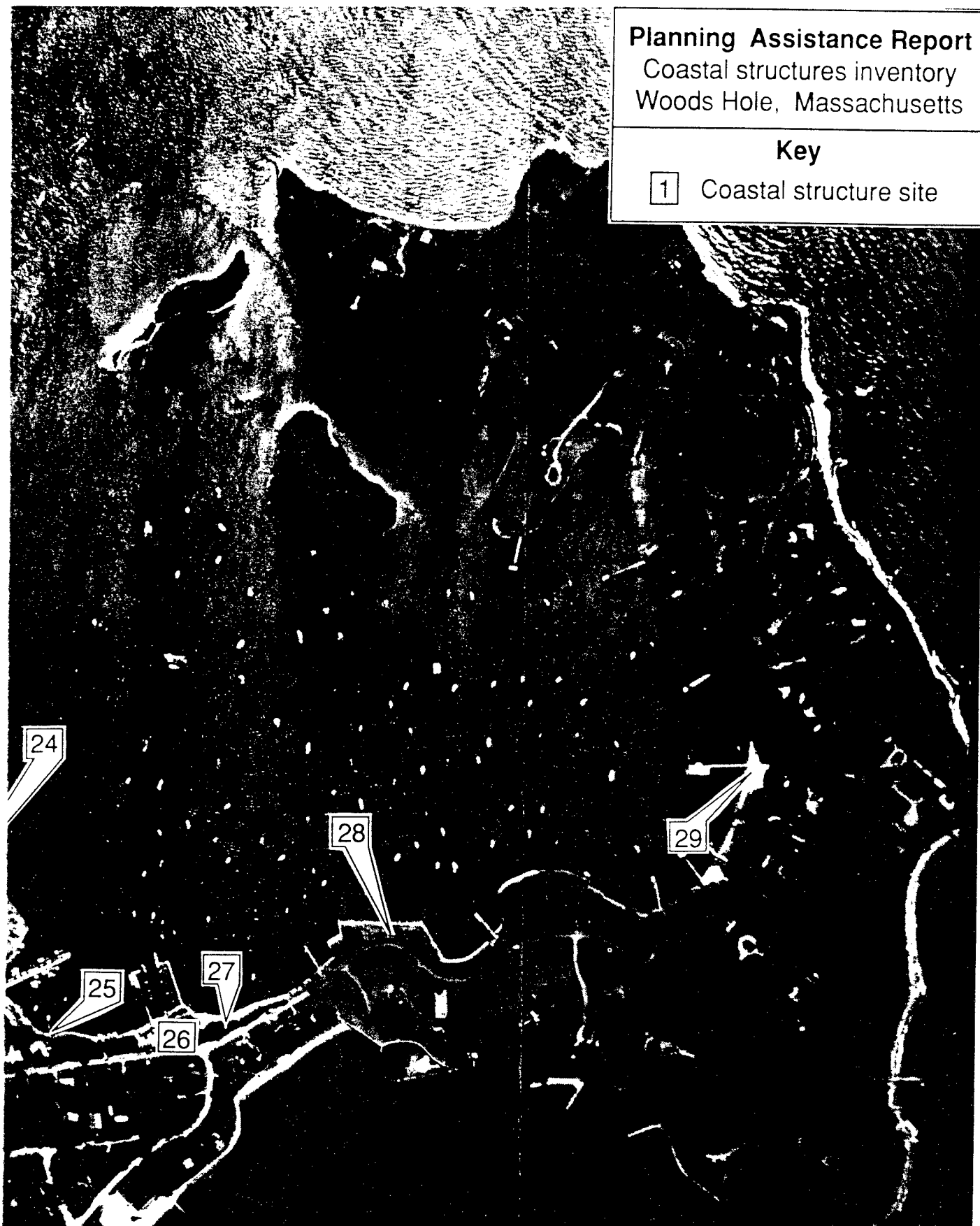


Plate 5
Woods Hole & Little Harbor

3

FALMOUTH



001

Structure: Town landing and jetty

Address: Clinton Avenue

Owner: Town of Falmouth

Location on waterfront: Entrance to harbor

Remarks:

002

Structure: Stone Bulkhead for Falmouth Yacht Club, Inc.

Address: Clinton Avenue

Owner: Falmouth Yacht Club

Location on waterfront: Inner Harbor

Remarks:

Corps of Engineers permit #820137 dated 16 December 1982
for rehabilitation of stone bulkhead.

003
Structure: Private Residence
Address: Clinton Ave.
Owner: William Gallagher
Location on waterfront: Inner Harbor
Remarks:
Commonwealth of Massachusetts permit #1285

004
Structure: Private residence, beachfront
Address: Deacon's Avenue
Owner: John Morley
Location on waterfront: Inner Harbor
Remarks:

005

Structure: Beach and Park, 1.18 acres

Address: Deacon's Avenue

Owner: Town of Falmouth

Location on waterfront: Inner Harbor

Remarks:

Mooring area, beach frontage

006

Structure: MacDougall's Marina

Address: Falmouth Heights Road

Owner: MacDougall's Cape Cod Marine

Location on waterfront: Inner Harbor, West

Remarks:

Beach frontage, docks and slips

Commonwealth of Massachusetts permit #1352

Corps of Engineers permit #830158 dated 30 March 1983 for repairing bulkheads.

007
Structure: Bulkhead for The Boatyard Condominium Developme
Address: Falmouth Heights Road
Owner: Various private ownerships
Location on waterfront: Inner Harbor, West
Remarks:

008
Structure: Piers for The Studio Motel
Address: Falmouth Heights Rd.
Owner: Paul E. Ferrazzi et. al.
Location on waterfront: Inner Harbor, West
Remarks:
Corps of Engineers permits #850334 dated 16 December 1985
and #860552 dated 4 December 1986 for pier construction.

009

Structure: Bulkhead

Address: Falmouth Heights Rd.

Owner: P&J's Realty Trust

Location on waterfront: Inner Harbor, West

Remarks:

Commonwealth of Massachusetts Permit #2112-880271

Corps of Engineers permit #840362 dated 10 May 1984 for
bulkhead and landing.

010

Structure: Bulkhead

Address: Falmouth Heights Road

Owner: James G. Dicostanzo

Location on waterfront: Inner Harbor, West

Remarks:

Private residence

011

Structure: Bulkhead for East Marine Boat Storage and Mari:
Address: Falmouth Heights Road
Owner: Peter Mareb
Location on waterfront: Inner Harbor, North West
Remarks:
Bulkhead

012

Structure: Bulkhead
Address: Falmouth Heights Road
Owner: Rosemarie Sarno
Location on waterfront: Inner Harbor North West
Remarks:
Retail Business

013

Structure: Bulkhead for Ferry Landing area

Address: Falmouth Heights Rd

Owner: Island Commuter Corporation

Location on waterfront: Inner Harbor, North West

Remarks:

Ferry to Martha's Vineyard lands here

014

Structure: Falmouth Harbor Yacht Sales and Marina

Address: Falmouth Heights Rd.

Owner: Douglass Pool

Location on waterfront: Inner Harbor, North West

Remarks:

015
Structure: Town Landing
Address: Falmouth Heights Rd.
Owner: Town of Falmouth
Location on waterfront: Inner Harbor, North
Remarks:

016
Structure: Bulkhead
Address: Falmouth Heights Rd.
Owner: Town of Falmouth
Location on waterfront: Falmouth Inner Harbor, North
Remarks:
Park area here, town green
Corps of Engineers permit #850337 to Town of Falmouth for
placement of pilings.

017

Structure: Bulkhead, Falmouth Gun and Tackle

Address: 21 Scranton Avenue

Owner: George L Barbor

Location on waterfront: Falmouth Inner Harbor, North

Remarks:

Commonwealth of Massachusetts permit #1369

018

Structure: Bulkhead, Pier 37 Associates Marina

Address: 35 Scranton Avenue

Owner: Pier 37 Associates

Location on waterfront: Falmouth Inner Harbor, North

Remarks:

Corps of Engineers Permit #830735 dated 18 January 1984
for bulkhead and landing

019
Structure: Bulkhead, private residence

Address: 110 Scranton Avenue
Owner: George Barbour
Location on waterfront: Falmouth Inner Harbor

Remarks:
Corps of Engineers permit #881322 to Barbour Marine for
mooring permits.
Commonwealth of Massachusetts permit #1369 to Ethel Barbour

020
Structure: Bulkhead, boat slips and park area

Address: Scranton Avenue
Owner: Town of Falmouth
Location on waterfront: Falmouth Inner Harbor, North West

Remarks:
Corps of Engineers Permits #830526 dated 15 August 1983 and
#850337 dated 17 May 1985 for pile construction.

023

Structure: Bulkhead and Boat Slips
Address: 278 Scranton Avenue
Owner: Falmouth Marine, Inc.
Location on waterfront: Falmouth Inner Harbor, North West
Remarks:
Commonwealth of Massachusetts Permit #1958-89-0002 for
existing structure

024

Structure: Bulkhead and Slips for Falmouth Marine
Address: Scranton Ave.
Owner: Falmouth Marine Inc.
Location on waterfront: Falmouth Inner Harbor, North West
Remarks:
Corps of Engineers permit #880155 to Falmouth Waterways for
placement of pilings.
Commonwealth of Massachusetts permit #1958-89-0002

025

Structure: Bulkhead and dock
Address: 344 Scranton Avenue
Owner: Private Residence
Location on waterfront: Falmouth Inner Harbor, North West

Remarks:
Corps of Engineers permit #880159 to David Wald for pilings
and dolphin piers

026

Structure: Seawall and Revetment
Address: Scranton Avenue, Lot 3
Owner: Private Residence
Location on waterfront: Falmouth Inner Harbor, North West
Remarks:
Corps of Engineers permit #880156 to Wormelle family for
bulkhead, deck and pilings.
Commonwealth of Massachusetts permit #907-87-0279.

027

Structure: Seawall and Bulkhead

Address: Scranton Avenue

Owner: Falmouth Yacht Sales, Inc

Location on waterfront: Falmouth Inner Harbor, West

Remarks:

Regatta Restaurant and Clam Shack here also

029

Structure: Jetty and Bulkhead

Address: Scranton Avenue

Owner: Commonwealth of Massachusetts

Location on waterfront: Falmouth Harbor, Western Entrance

Remarks:

WOODS HOLE



1
Structure: Stone Jetty and Pier
Address: Little Harbor Rd.
Owner: Town of Woods Hole
Location on waterfront: Little Harbor
Remarks:

2
Structure: Stone Jetty and Pier
Address: Little Harbor Rd.
Owner: Town of Falmouth
Location on waterfront: Little Harbor
Remarks:

Structure: ³ Pier, wood construction with pilings
Address: Little Harbor Rd.
Owner: Private Residence
Location on waterfront: Little Harbor
Remarks:

Structure: ⁴ Rip Rap
Address: Little Harbor Shoreline
Owner: Town of Falmouth
Location on waterfront: Little Harbor
Remarks:

5

Structure: Stone Jetty
Address: Woods Hole Rd.
Owner: Private Residence
Location on waterfront: Little Harbor
Remarks:

6

Structure: Sea Wall
Address: Little Harbor
Owner: Town of Falmouth
Location on waterfront: Little Harbor
Remarks:

Structure:

7
Sea Wall

Address:

Little Harbor

Owner:

Town of Falmouth

Location on waterfront:

Little Harbor

Remarks:

Structure:

8
Bulkhead and Pier off private residence

Address:

Woods Hole Rd

Owner:

Thomas H. Balantine

Location on waterfront:

Little Harbor

Remarks:

9

Structure: Bulkhead, Town Landing and Pier
Address: Woods Hole Rd.
Owner: Town of Falmouth
Location on waterfront: Little Harbor
Remarks:

10

Structure: Wharf
Address: Woods Hole Rd.
Owner: United States Coast Guard
Location on waterfront: Little Harbor
Remarks:
Corps of Engineers Permit #780561 dated 11 September 1978
for placement of pilings.

11
Structure: Stone Jetty and Dock
Address: Hinckley Rd.
Owner: Charles M. Crane
Location on waterfront: Little Harbor
Remarks:

12
Structure: Private pier with pilings
Address: Hinckley Rd.
Owner: Max M. Burger
Location on waterfront: Little Harbor
Remarks:
Commonwealth of Massachusetts permit #155, record #840178
Corps of Engineers Permit #840378 dated 27 December 1984
for pier and pilings

13
Structure: Rip Rap
Address: Little Harbor shoreline
Owner: Town of Falmouth
Location on waterfront: Little Harbor
Remarks:

14
Structure: Shoreline
Address: Little Harbor
Owner: access is owned by various private individuals
Location on waterfront: Little Harbor
Remarks:

15
Structure: Stone Jetty and Dock
Address: Hinckley Rd.
Owner: Silvia Crane
Location on waterfront: Great Harbor
Remarks:

16
Structure: Wharf
Address: Railroad Ave.
Owner: Woods Hole/Nantucket Steamship Authority
Location on waterfront: Great Harbor
Remarks:
Corps of Engineers Permit #881290, dated 3 April 1989
Commonwealth of Massachusetts permit #1989, record #880146

17

Structure: Wooden Bulkhead with Pier

Address: Woods Hole Rd.

Owner: Naushon Trust

Location on waterfront: Great Harbor

Remarks:

Landfall Restaurant occupies this bulkhead.

18

Structure: Bulkhead with docking capabilities

Address: Water St.

Owner: William A. Estes

Location on waterfront: Great Harbor

Remarks:

19

Structure: Bulkhead and Pier

Address: Water St.

Owner: Fishmonger's Restaurant

Location on waterfront: Great Harbor

Remarks:

Fishmonger's Cafe occupies this bulkhead.

20

Structure: Steel Bulkhead

Address: Dyers Dock.

Owner: Woods Hole Oceanographic Institute

Location on waterfront: Great Harbor

Remarks:

Corps of Engineers permit #883601 dated 17 November 1988

Commonwealth of Massachusetts permit #2074, record #880232

21
Structure: Wharf
Address: Water St.
Owner: Marine Biology Laboratory
Location on waterfront: Great Harbor
Remarks:

22
Structure: Sea Wall
Address: Water St. shoreline
Owner: Town of Woods Hole
Location on waterfront: Great Harbor
Remarks:

23
Structure: Sea Wall containing a bay side park
Address: Water St.
Owner: Town of Woods Hole
Location on waterfront: Great Harbor
Remarks:

24
Structure: Stone Jetties and Dolphin Piers
Address: Albatross and Water Streets
Owner: U.S. Fish Commission
Location on waterfront: Great Harbor
Remarks:
Commonwealth of Massachusetts permit #1751, record #80037
Corps of Engineers permit #790455 dated 21 January 1980
for dolphin piers and catwalk.

25

Structure: Town Landing and Jetty

Address: Albatross St.

Owner: Town of Woods Hole

Location on waterfront: Great Harbor

Remarks:

26

Structure: Wood constructed piers, pilings

Address: BarNeck Rd.

Owner: Woods Hole Marina

Location on waterfront: Great Harbor

Remarks:

27
Structure: Town Landing
Address: BarNeck Rd.
Owner: Town of Woods Hole
Location on waterfront: Great Harbor
Remarks:

28
Structure: Stone Bulkhead
Address: BarNeck Rd.
Owner: Private Residence
Location on waterfront: Great Harbor
Remarks:

29

Structure: Stone Jetty, Dock

Address: BarNeck

Owner: Private Residence

Location on waterfront: Great Harbor

Remarks:

40

Structure: Bulkhead

Address: Water St.

Owner: Woods Hole Oceanographic Institute

Location on waterfront: Eel Pond

Remarks:

Corps of Engineers Permit #881665, to permit moorings

Commonwealth of Massachusetts permit #2074, record #880232

41
Structure: Bulkhead
Address: School St.
Owner: Private Residence
Location on waterfront: Eel Pond
Remarks:

42
Structure: Sea Wall
Address: School St.
Owner: Town of Woods Hole School Dept.
Location on waterfront: Eel Pond
Remarks:

43

Structure: Stone Bulkhead
Address: School Streets
Owner: Private Residence
Location on waterfront: Eel Pond

Remarks:

44

Structure: Stone Wharf and Timber piers
Address: Albatross St.
Owner: Marine Biology Laboratory
Location on waterfront: Eel Pond

Remarks:

Corps of Engineers permit #850281 dated 14 May 1985 for
timber platform

45
Structure: Town Landing
Address: Albatross St.
Owner: Town of Woods Hole
Location on waterfront: Eel Pond

Remarks:
Corps of Engineers Permit #850051 dated 29 January 1985 to
reconstruct town landing.

46
Structure: Bulkhead, wood construction
Address: Water St.
Owner: Shirley Baker
Location on waterfront: Eel Pond
Remarks:
The Black Duck Restaurant occupies this bulkhead.

47

Structure: Wood Bulkhead
Address: Water St.
Owner: William F. Crowley
Location on waterfront: Eel Pond
Remarks:
Captain Kid Restaurant occupies this bulkhead

48

Structure: Wooden Bulkhead
Address: Water St.
Owner: Marine Biology Laboratory
Location on waterfront: Eel Pond
Remarks: