



US Army Corps
of Engineers®
New England District
696 Virginia Road
Concord, MA 01742-2751

PUBLIC NOTICE

Date: June 29, 2004
Comment Period Ends: July 29, 2004
File Number: NAE-2004-1533
In Reply Refer To: Alan R. Anacheka-Nasemann
Or by e-mail:alan.r.anacheka-nasemann@usace.army.mil

Mr. David Fredericks, of Nantucket Electric Company, 2 Fairgrounds Rd., Nantucket, Massachusetts 02554 has requested a Corps of Engineers permit under Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act to place a temporary cofferdam, install a new 46 kV underground and submarine electric cable and a fiber-optic communications cable, discharge fill material into approximately 9.98 acres of waters of the United States as backfill for the cable, and install approximately 10 feet of the cable over a tidal navigable water of the United States.

This work is proposed over Snow's Creek, Barnstable, Massachusetts, and across and under Nantucket Sound, between Ocean Street at Hyannis Harbor, Barnstable, Massachusetts, and Jefferson Avenue, Nantucket Massachusetts. Approximately 145,000 feet (27.5 miles) of electric and fiber-optic cables would be installed approximately 8 feet below Nantucket Sound. The work is described on the enclosed plans entitled "NANTUCKET ELECTRIC COMPANY NANTUCKET CABLE PROJECT," on 15 sheets, and dated "DRAFT MAY 11, 2004."

The Snow's Creek crossing will be placed in the existing Ocean Street roadbed; this work will not result in a discharge of dredged or fill material in Snow's Creek. Portions of the project will be installed under coastal beaches and dunes by means of a horizontal directional drill rig, placed upland (above the high tide line) to install the cable conduit to a point proximal to the mean high water line. Remaining in-water (submarine portions of the conduit will be installed using a jet plow placed on the seabed. A barge will tow the jet plow using winches pulling against the barge's anchor lines, while tugboats advance the barge anchors. Water jets on the plow blade will be used to liquefy a portion of the seabed, disturbing an area approximately 3 feet wide and 8 feet deep immediately in front of the plow blade. The cable conduit will be fed through the hollow blade of the plow, and laid in the liquefied seabed. Sand will settle immediately over the cable behind the jet plow as it passes.

Approximately 5398 linear feet of the cable will cross through vegetated shallows consisting of eelgrass beds. This work will have a temporary effect on 16,194 square feet (0.37 acre) of vegetated shallows, which provide cover and nursery habitat for developing finfish and shellfish, filter pollutants and stabilize nearshore sediments.

This project will have temporary adverse effects on approximately ten (10) acres of Essential Fish Habitat (EFH) for the following species and life stages: Atlantic cod (*Gadus morhua*): adults; winter flounder (*Pseudopleuronectes americanus*): all life stages; yellowtail flounder (*Pleuronectes ferruginea*): juveniles; summer flounder (*Paralichthys dentatus*): juveniles and adults; windowpane flounder (*Scoeleuronectes americanus*): juveniles; Atlantic herring (*Clupea herengus*): juveniles and adults; and surf clam (*Spisula solidissima*): all life stages. This habitat consists of sand substrate throughout Nantucket Sound and also eelgrass (*Zostera rostrata*) beds. Temporary impacts to substrate habitat include removal and replacement of material and secondary turbidity and smothering of adjacent substrate, which may adversely affect spawning and nursery areas for winter flounder and foraging areas for all of the above species. In addition,

eelgrass has been designated a habitat area of particular concern (HAPC) for summer flounder. Temporary loss of eelgrass habitat will have an adverse effect on summer flounder juveniles and adults, which utilize eelgrass beds as foraging and nursery areas. Eelgrass beds are expected to recover over approximately 1-3 years after the project is complete. The District Engineer has made a preliminary determination that site-specific impacts on eelgrass may be substantial, although they are expected to be temporary. Accordingly, the Corps of Engineers will submit an expanded EFH assessment to National Marine Fisheries Service, who in turn will provide conservation recommendations to the Corps. The Corps will coordinate with the applicant regarding implementation of these recommendations. The EFH consultation will be concluded prior to the final decision.

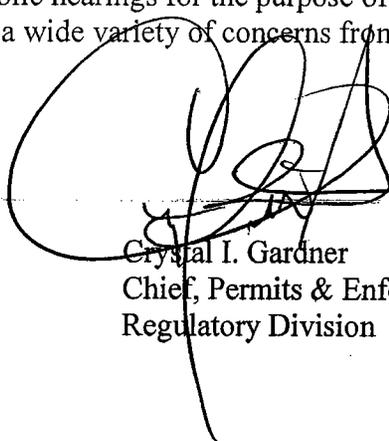
Additional, upland portions of the project include: (1) installation of a new substation in Barnstable, Massachusetts; (2) installation of the cable along and under existing roadways, between the proposed new substation and Nantucket Sound; and (3) installation of the cable between the existing Nantucket substation and Nantucket Sound. A Corps of Engineers permit is not required for these upland portions of the project, as they do not involve the discharge of dredged or fill material into waters of the United States or structures or work within, under or over navigable waters of the United States.

The Snow's Creek Crossing is located on the USGS Hyannis Quadrangle at UTM coordinates 4610870 N and 393434 E. The crossing of Nantucket Sound originates on the USGS Hyannis quadrangle sheet at UTM coordinates 4610061 N and 393306 E and terminates on the USGS Nantucket quadrangle sheet at UTM coordinates 4572224 N and 407234 E (Zone 19).

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. Comments should be submitted in writing by the above date. If you have any questions, please contact Alan R. Anacheka-Nasemann, PWS at (978) 318-8214, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

SEE NEXT PAGE FOR
DETAILS OF EVALUATION
FACTORS



Crystal I. Gardner
Chief, Permits & Enforcement Branch
Regulatory Division

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfill requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

Pursuant to the Endangered Species Act, the District Engineer is hereby requesting that the appropriate Federal Agency provide comments regarding the presence of and potential impacts to listed species or its critical habitat.

The following authorizations have been applied for, or have been, or will be obtained:

- (X) Permit, License or Assent from State.
- (X) Permit from Local Wetland Agency or Conservation Commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

The States of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved Coastal Zone Management Programs. Where applicable the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

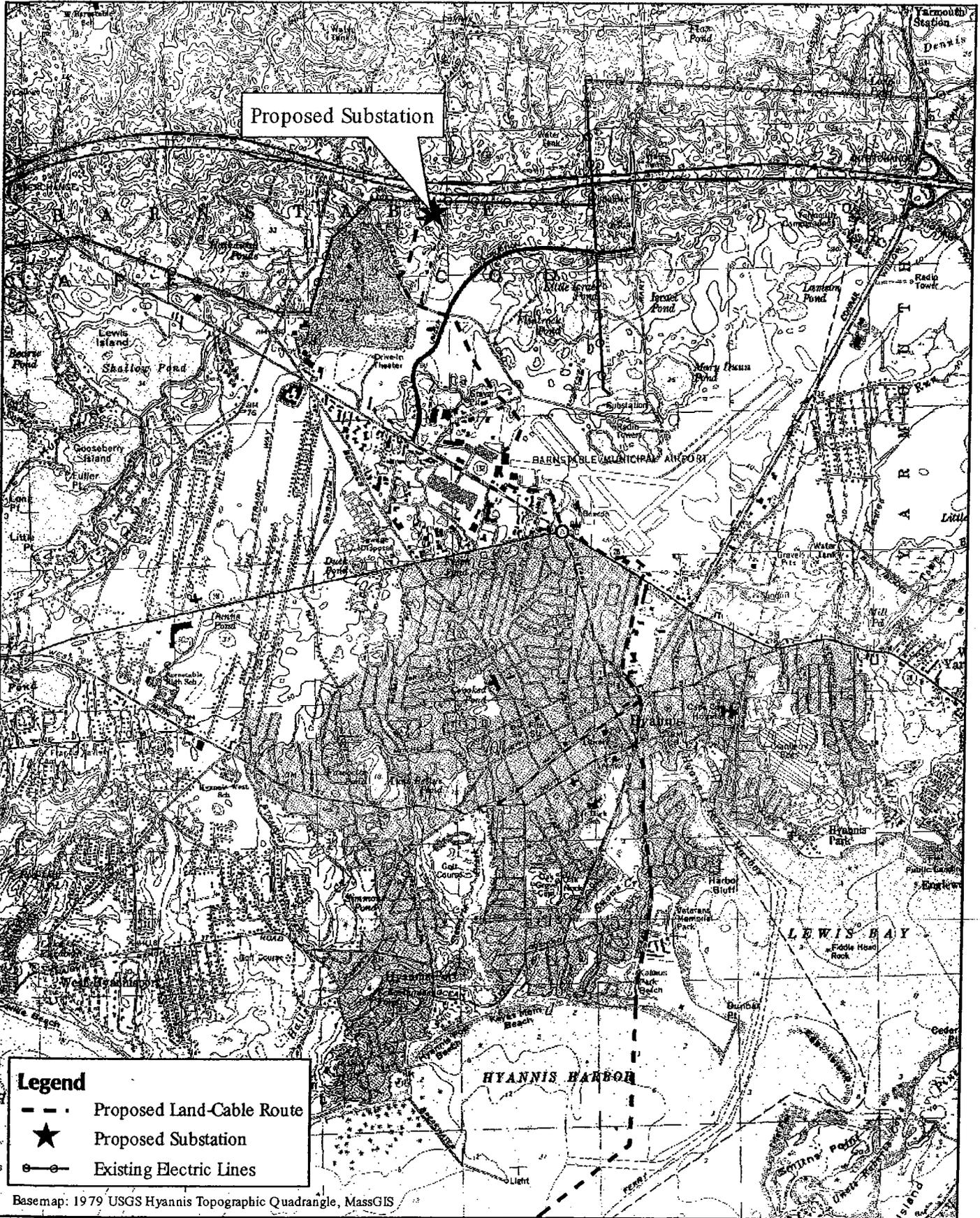
The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

~~THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.~~

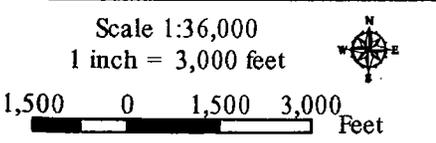
If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____

ADDRESS: _____



Basemap: 1979 USGS Hyannis Topographic Quadrangle, MassGIS

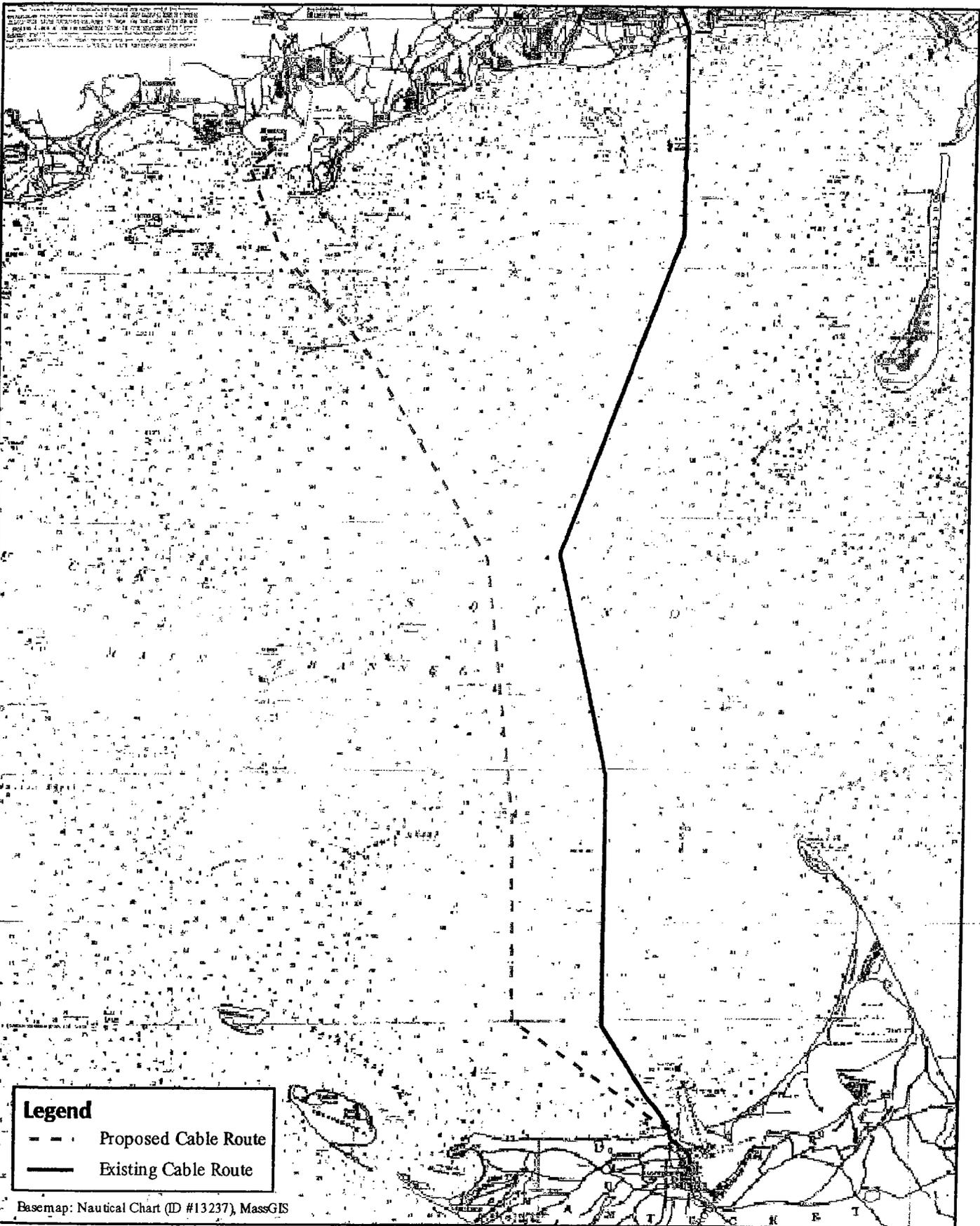


Proposed Barnstable Land-Cable Route

**Nantucket Cable Project
Barnstable, Massachusetts**

Nantucket Electric
A National Grid Company

EPSILON ASSOCIATES INC.
Engineers & Environmental Consultants



The chart is a reproduction of the original chart and is not to be used for navigation. It is intended for informational purposes only. The chart is a reproduction of the original chart and is not to be used for navigation. It is intended for informational purposes only.

Legend

- - - Proposed Cable Route
- Existing Cable Route

Base map: Nautical Chart (ID #13237), MassGIS

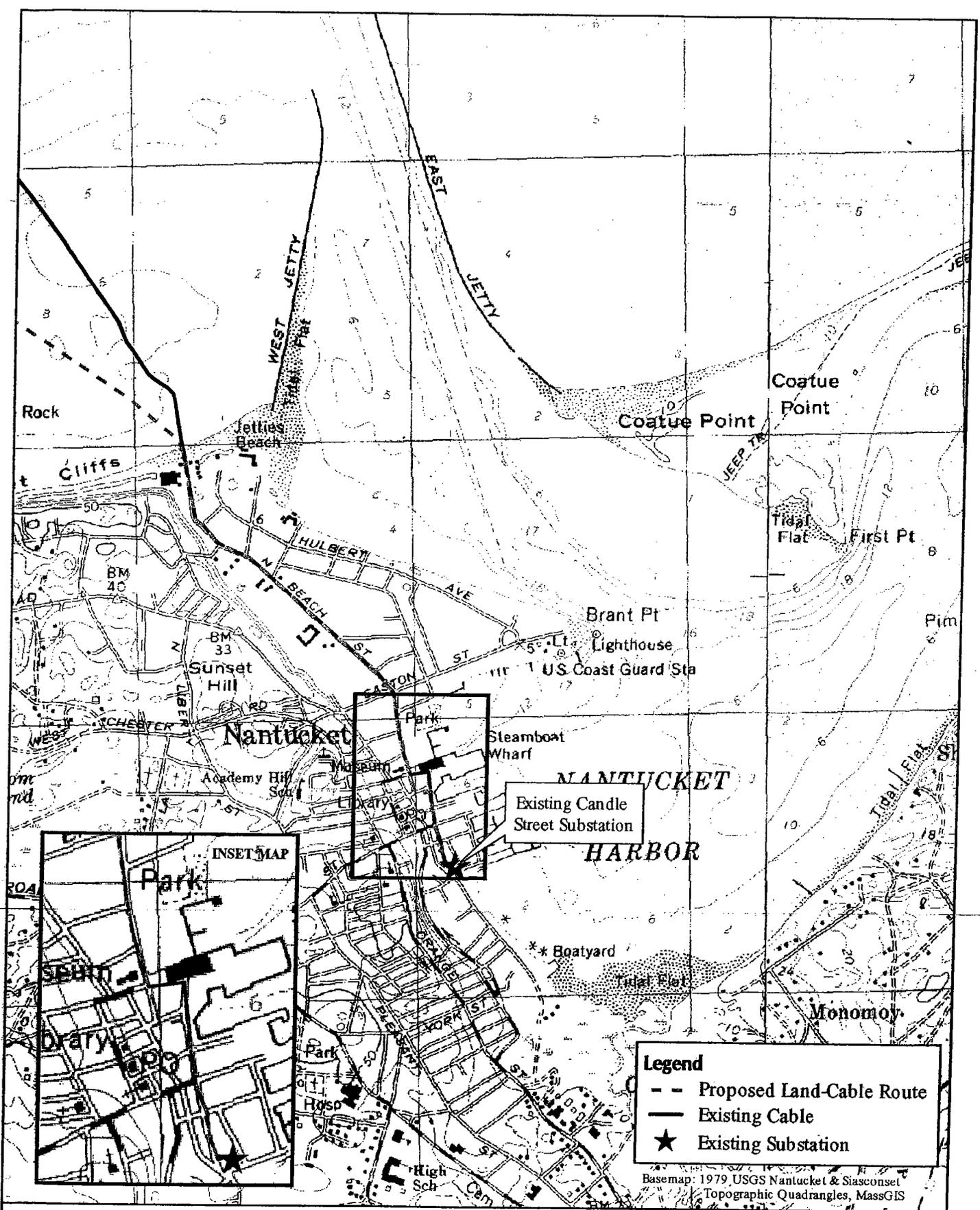
Scale 1:190,000
1 inch = 3 miles



Proposed Submarine Cable Route
Nantucket Cable Project
Barnstable & Nantucket, Massachusetts

Nantucket Electric
A National Grid Company

EPSILON ASSOCIATES INC.
Engineers & Environmental Consultants



- Legend**
- - Proposed Land-Cable Route
 - Existing Cable
 - ★ Existing Substation

Basemap: 1979 USGS Nantucket & Siasconset Topographic Quadrangles, MassGIS

Scale 1:18,000
1 inch = 1,500 feet

750 0 750 1,500 Feet

Proposed Nantucket Land-Cable Route

**Nantucket Cable Project
Nantucket, Massachusetts**

Nantucket Electric
A National Grid Company

EPSILON ASSOCIATES INC.
Engineers & Environmental Consultants

NEW
SUBSTATION

PLAN VIEW
SHEET 7 OF 14
BARNSTABLE
CABLE LANDFALL

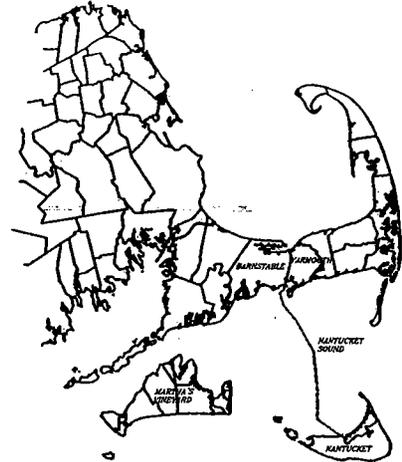
CAPE COD, MASSACHUSETTS

BARNSTABLE

LEWIS
BAY

HYANNIS
HARBOR

APPROXIMATE 3 MILE
STATE AND MUNICIPAL
JURISDICTION LIMIT



LOCUS MAP
(NOT TO SCALE)

NANTUCKET SOUND

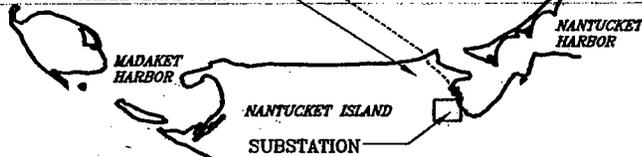
NOTES:

- 1. PLANS ARE FOR PERMITTING PURPOSES ONLY.
- 2. LOCATION OF SUBMARINE CABLE BASED ON MARINE SURVEY BY HYDROTERRA ENVIRONMENTAL SERVICES, LLC ON MAY 20 AND 29, 2003 AND SEPTEMBER 10 AND 11, 2003.

SUBMARINE CABLE

APPROXIMATE 3 MILE
STATE AND MUNICIPAL
JURISDICTION LIMIT

PLAN VIEW
SHEET 9 OF 14
NANTUCKET
CABLE LANDFALL



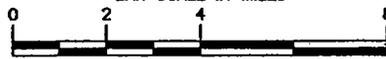
PURPOSE: ELECTRIC TRANSMISSION LINE

DATUM: NGVD 1929

ADJACENT PROPERTY OWNERS:
SEE ATTACHED NOTICE

PROJECT
OVERVIEW

BAR SCALE IN MILES



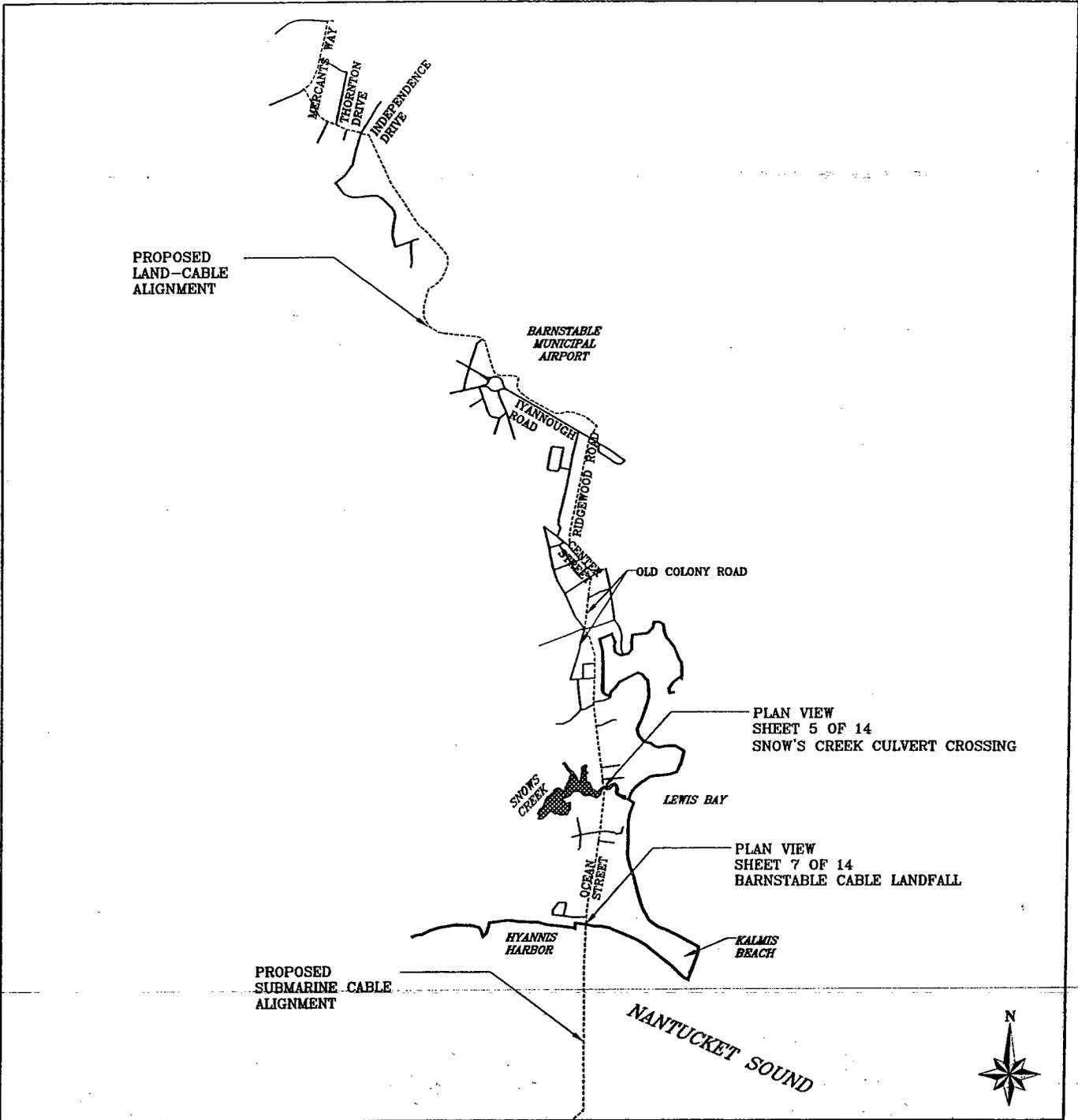
1 inch = 4 miles

APPLICANT: NANTUCKET ELECTRIC CO
A NATIONAL GRID COMPANY
2 FAIRGROUNDS ROAD
NANTUCKET, MA 02254

NANTUCKET ELECTRIC COMPANY
NANTUCKET CABLE PROJECT

ADJACENT TO: NANTUCKET SOUND
AT: TOWN OF BARNSTABLE & NANTUCKET
COUNTY: BARNSTABLE & NANTUCKET COUNTIES
APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 1 OF 13
DRAFT MAY 11, 2004

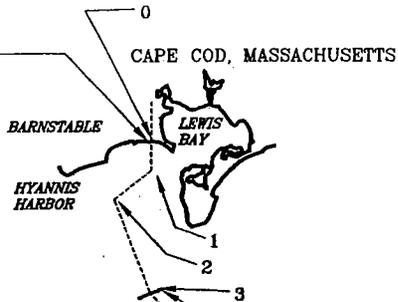


PURPOSE: ELECTRIC TRANSMISSION LINE
 DATUM: NGVD 1929
 ADJACENT PROPERTY OWNERS:
 SEE ATTACHED NOTICE

FOCUS PLAN
BARNSTABLE, MA
 BAR SCALE
 0 1,500 3,000 6,000
 1 inch = 3000 ft.
 1:36,000
 APPLICANT: NANTUCKET ELECTRIC CO
 A NATIONAL GRID COMPANY
 2 FAIRGROUNDS ROAD
 NANTUCKET, MA 02254

NANTUCKET ELECTRIC COMPANY
NANTUCKET CABLE PROJECT
 ADJACENT TO: NANTUCKET SOUND
 AT: TOWN OF BARNSTABLE & NANTUCKET
 COUNTY: BARNSTABLE & NANTUCKET COUNTIES
 APPLICATION BY: NANTUCKET ELECTRIC CO
 SHEET: 2 OF 13
 DRAFT MAY 11, 2004

PLAN VIEW
SHEET 7 OF 14
BARNSTABLE
CABLE LANDFALL



COORDINATE LEGEND:

- 0 - 41.63481473 70.28145915
- 1 - 41.62639801 70.28139248
- 2 - 41.6177147 70.29707587
- 3 - 41.5894146 70.28255918
- 4 - 41.55668122 70.24430911
- 5 - 41.48663111 70.19004233
- 6 - 41.40073092 70.17907564
- 7 - 41.33308078 70.17924226
- 8 - 41.29593071 70.10720878

APPROXIMATE 3 MILE
STATE AND MUNICIPAL
JURISDICTION LIMIT

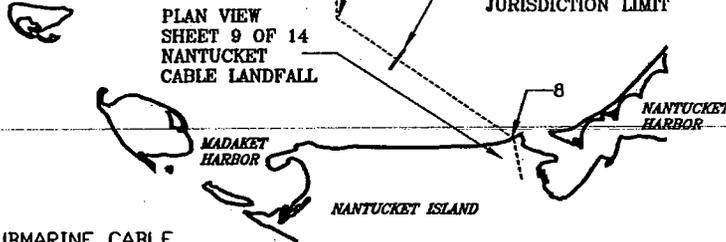
5 → NANTUCKET SOUND

PROPOSED
SUBMARINE CABLE
ALIGNMENT

6 →

APPROXIMATE 3 MILE
STATE AND MUNICIPAL
JURISDICTION LIMIT

PLAN VIEW
SHEET 9 OF 14
NANTUCKET
CABLE LANDFALL



NOTE:
SEE SHEET 12 OF 13 FOR SUBMARINE CABLE
TRENCH CROSS-SECTION

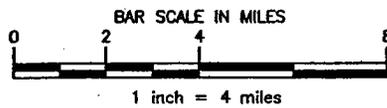


PURPOSE: ELECTRIC TRANSMISSION LINE

DATUM: NGVD 1929

ADJACENT PROPERTY OWNERS:
SEE ATTACHED NOTICE

FOCUS PLAN
NANTUCKET SOUND

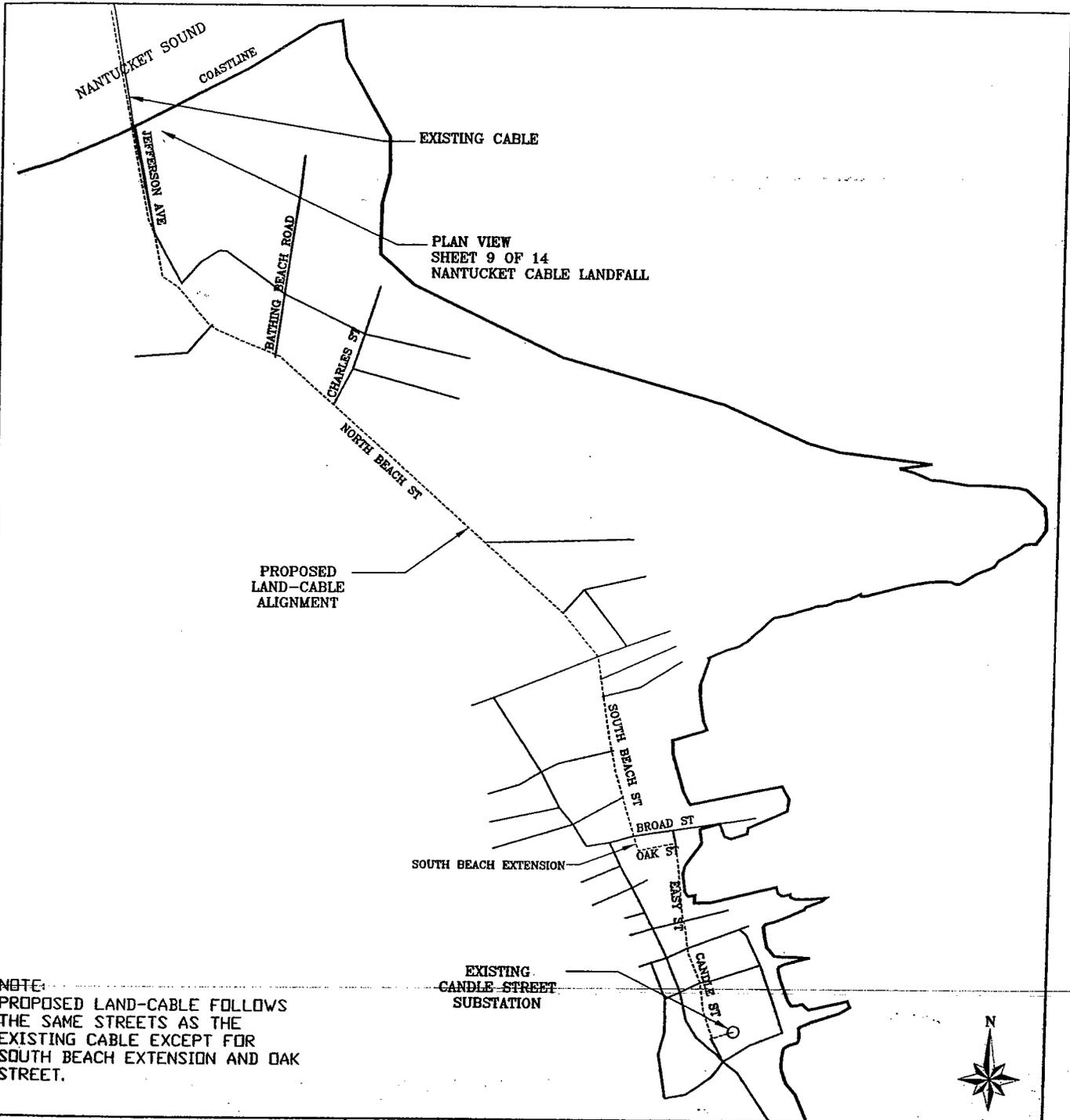


APPLICANT: NANTUCKET ELECTRIC CO
A NATIONAL GRID COMPANY
2 FAIRGROUNDS ROAD
NANTUCKET, MA 02254

NANTUCKET ELECTRIC COMPANY
NANTUCKET CABLE PROJECT

ADJACENT TO: NANTUCKET SOUND
AT: TOWN OF BARNSTABLE & NANTUCKET
COUNTY: BARNSTABLE & NANTUCKET COUNTIES
APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 3 OF 13
DRAFT MAY 11, 2004



NOTE:
 PROPOSED LAND-CABLE FOLLOWS
 THE SAME STREETS AS THE
 EXISTING CABLE EXCEPT FOR
 SOUTH BEACH EXTENSION AND OAK
 STREET.

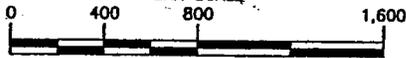
PURPOSE: ELECTRIC TRANSMISSION LINE

DATUM: NGVD 1929

ADJACENT PROPERTY OWNERS:
 SEE ATTACHED NOTICE

**FOCUS PLAN
 NANTUCKET, MA**

BAR SCALE



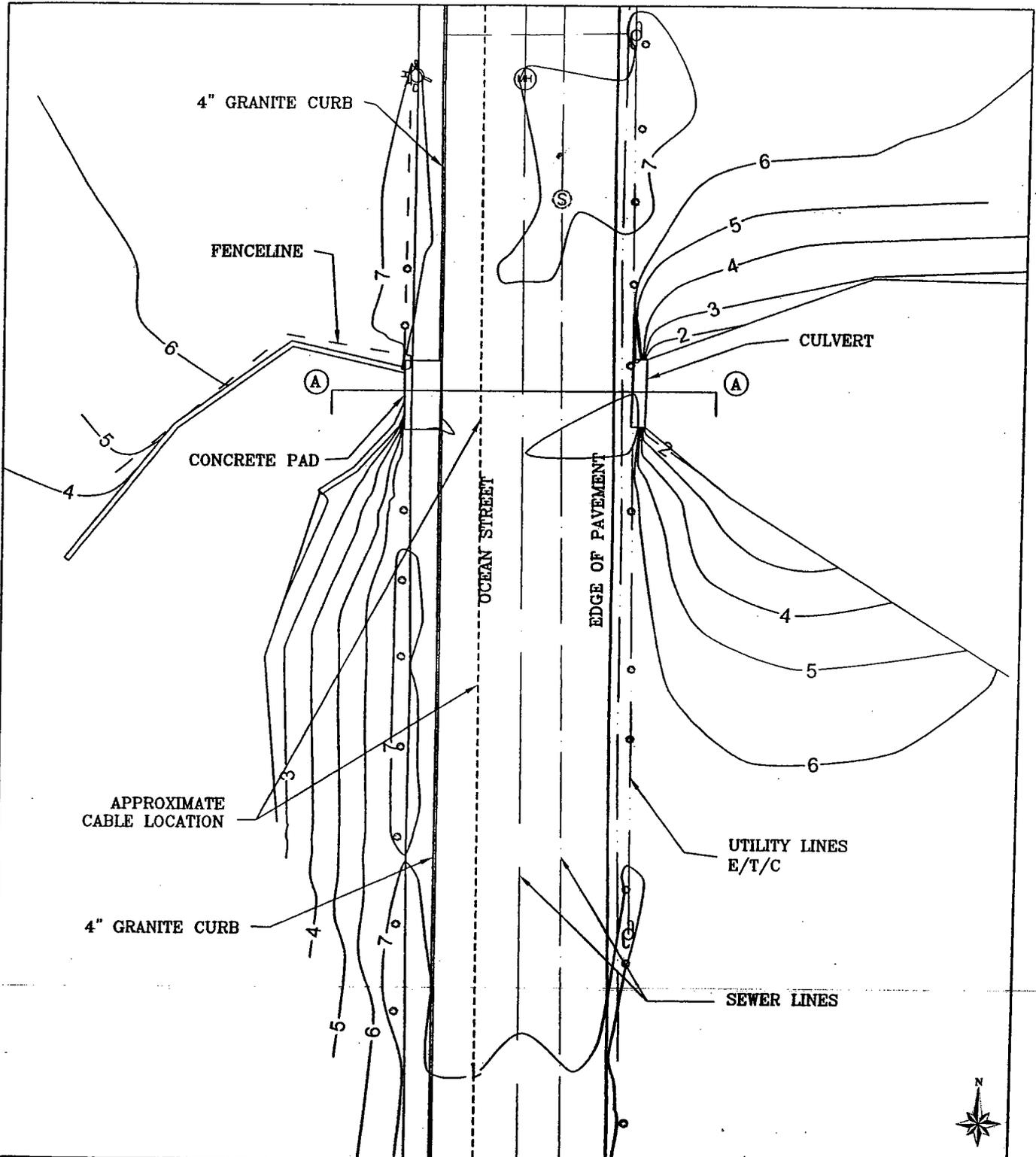
1 inch = 800 ft.
 1:9,600

APPLICANT: NANTUCKET ELECTRIC CO
 A NATIONAL GRID COMPANY
 2 FAIRGROUNDS ROAD
 NANTUCKET, MA 02254

**NANTUCKET ELECTRIC COMPANY
 NANTUCKET CABLE PROJECT**

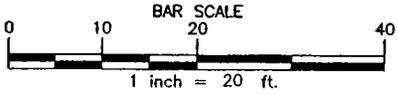
ADJACENT TO: NANTUCKET SOUND
 AT: TOWN OF BARNSTABLE & NANTUCKET
 COUNTY: BARNSTABLE & NANTUCKET COUNTIES
 APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 4 OF 13
 DRAFT MAY 11, 2004



PURPOSE: ELECTRIC TRANSMISSION LINE
 DATUM: NGVD 1929
 ADJACENT PROPERTY OWNERS:
 SEE ATTACHED NOTICE

PLAN VIEW
 SNOW'S CREEK CULVERT

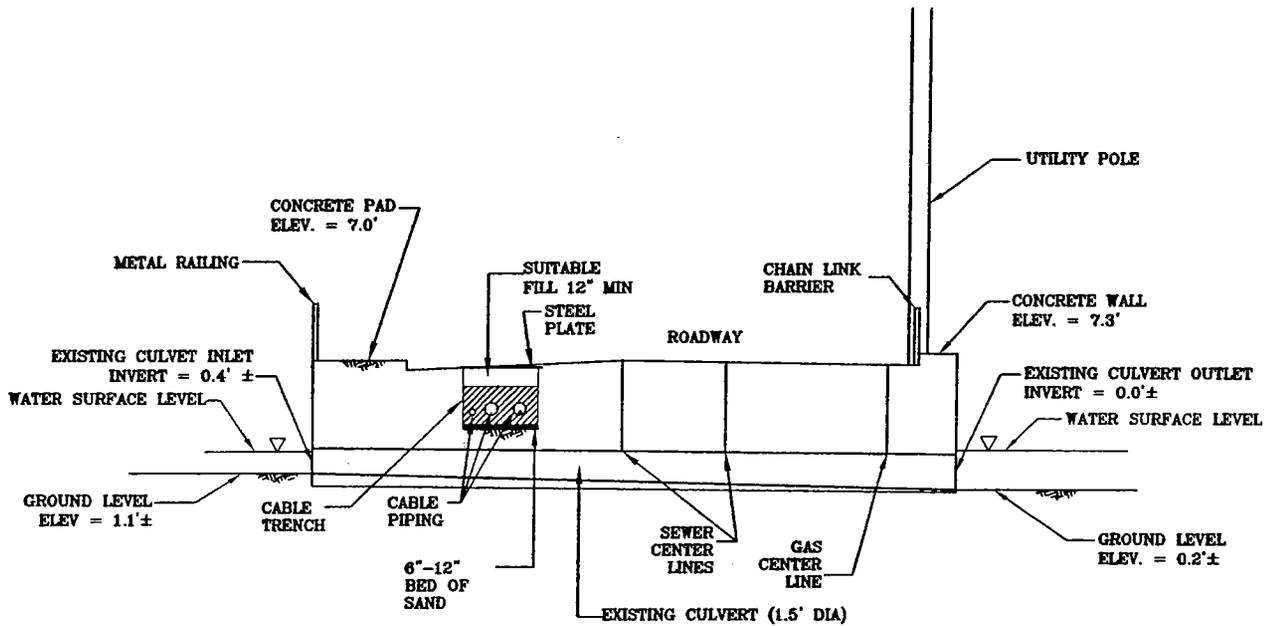


APPLICANT: NANTUCKET ELECTRIC CO
 A NATIONAL GRID COMPANY
 2 FAIRGROUNDS ROAD
 NANTUCKET, MA 02254

NANTUCKET ELECTRIC COMPANY
 NANTUCKET CABLE PROJECT

ADJACENT TO: NANTUCKET SOUND
 AT: TOWN OF BARNSTABLE & NANTUCKET
 COUNTY: BARNSTABLE & NANTUCKET COUNTIES
 APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 5 OF 13
 DRAFT MAY 11, 2004

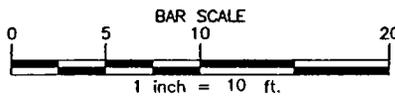


NOTE:
SECTION A-A FROM SHEET 5 OF 13
CROSS-SECTION VIEW LOOKING NORTH

PURPOSE: ELECTRIC TRANSMISSION LINE

ADJACENT PROPERTY OWNERS:
SEE ATTACHED NOTICE

CROSS-SECTION
SNOW'S CREEK CROSSING



APPLICANT: NANTUCKET ELECTRIC CO
A NATIONAL GRID COMPANY
2 FAIRGROUNDS ROAD
NANTUCKET, MA 02254

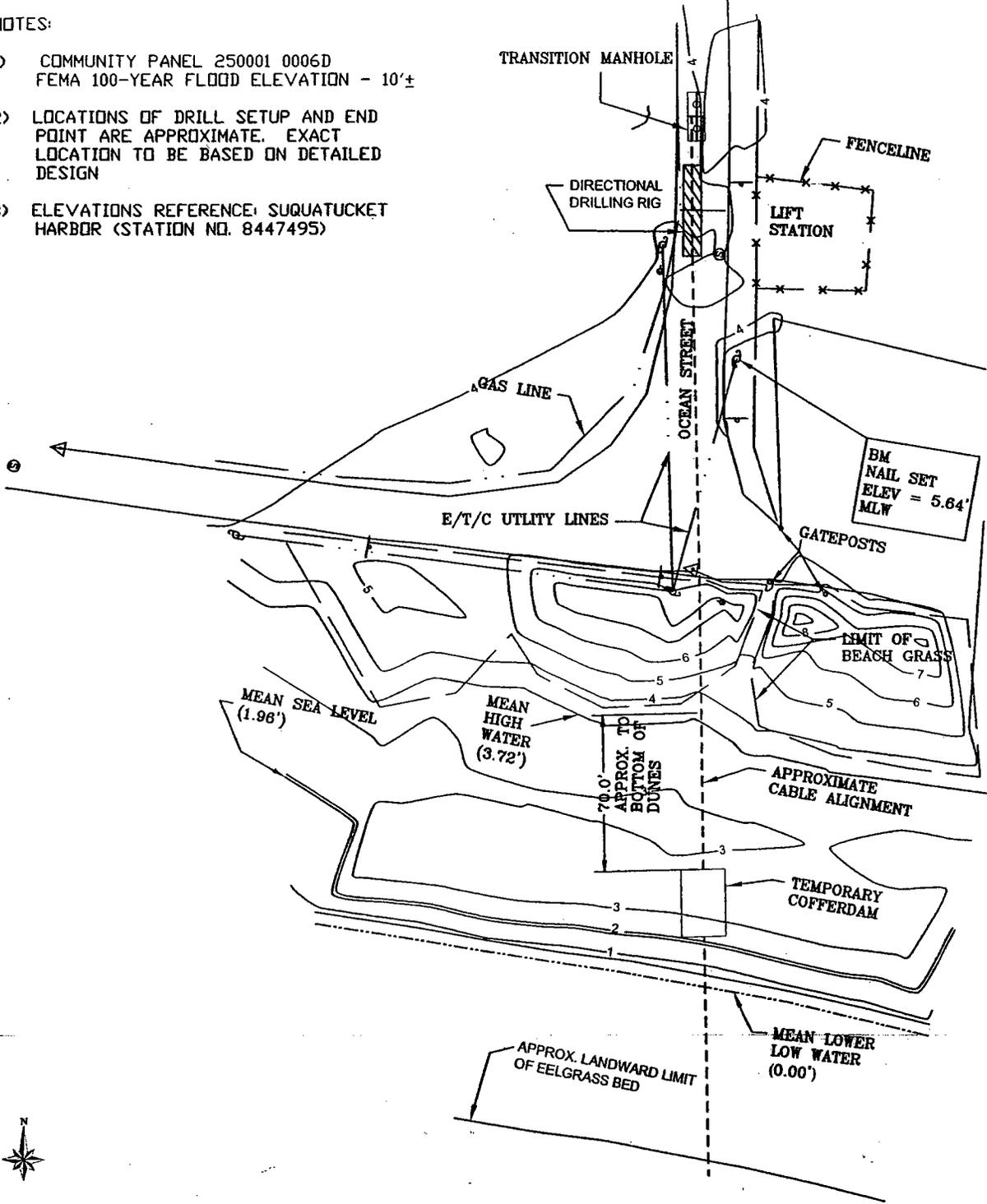
NANTUCKET ELECTRIC COMPANY
NANTUCKET CABLE PROJECT

ADJACENT TO: NANTUCKET SOUND
AT: TOWN OF BARNSTABLE & NANTUCKET
COUNTY: BARNSTABLE & NANTUCKET COUNTIES
APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 6 OF 13
DRAFT MAY 11, 2004

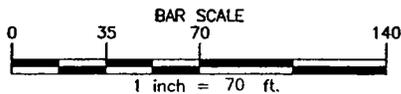
NOTES:

- 1) COMMUNITY PANEL 250001 0006D
FEMA 100-YEAR FLOOD ELEVATION - 10'±
- 2) LOCATIONS OF DRILL SETUP AND END POINT ARE APPROXIMATE. EXACT LOCATION TO BE BASED ON DETAILED DESIGN
- 3) ELEVATIONS REFERENCE: SUQUATUCKET HARBOR (STATION NO. 8447495)



PURPOSE: ELECTRIC TRANSMISSION LINE
 DATUM: SEE NOTES
 ADJACENT PROPERTY OWNERS:
 SEE ATTACHED NOTICE

PLAN VIEW
 BARNSTABLE LANDFALL

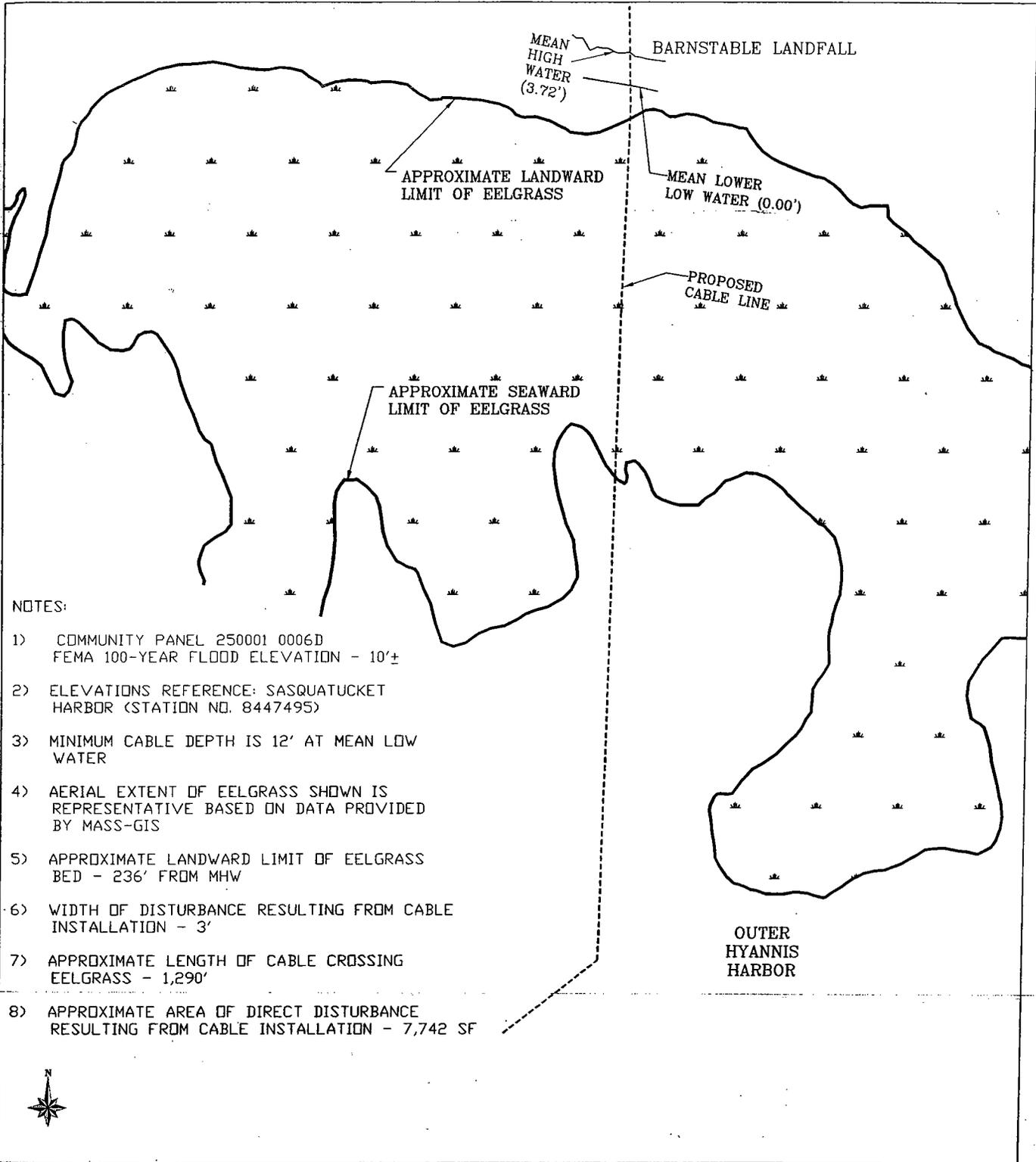


APPLICANT: NANTUCKET ELECTRIC CO
 A NATIONAL GRID COMPANY
 2 FAIRGROUNDS ROAD
 NANTUCKET, MA 02254

NANTUCKET ELECTRIC COMPANY
 NANTUCKET CABLE PROJECT

ADJACENT TO: NANTUCKET SOUND
 AT: TOWN OF BARNSTABLE & NANTUCKET
 COUNTY: BARNSTABLE & NANTUCKET COUNTIES
 APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 7 OF 13
 DRAFT MAY 11, 2004



NOTES:

- 1) COMMUNITY PANEL 250001 0006D
FEMA 100-YEAR FLOOD ELEVATION - 10'±
- 2) ELEVATIONS REFERENCE: SASQUATUCKET HARBOR (STATION NO. 8447495)
- 3) MINIMUM CABLE DEPTH IS 12' AT MEAN LOW WATER
- 4) AERIAL EXTENT OF EELGRASS SHOWN IS REPRESENTATIVE BASED ON DATA PROVIDED BY MASS-GIS
- 5) APPROXIMATE LANDWARD LIMIT OF EELGRASS BED - 236' FROM MHW
- 6) WIDTH OF DISTURBANCE RESULTING FROM CABLE INSTALLATION - 3'
- 7) APPROXIMATE LENGTH OF CABLE CROSSING EELGRASS - 1,290'
- 8) APPROXIMATE AREA OF DIRECT DISTURBANCE RESULTING FROM CABLE INSTALLATION - 7,742 SF

PURPOSE: ELECTRIC TRANSMISSION LINE
 DATUM: SEE NOTES
 ADJACENT PROPERTY OWNERS:
 SEE ATTACHED NOTICE

PLAN VIEW
 BARNSTABLE LANDFALL
 WITH EELGRASS

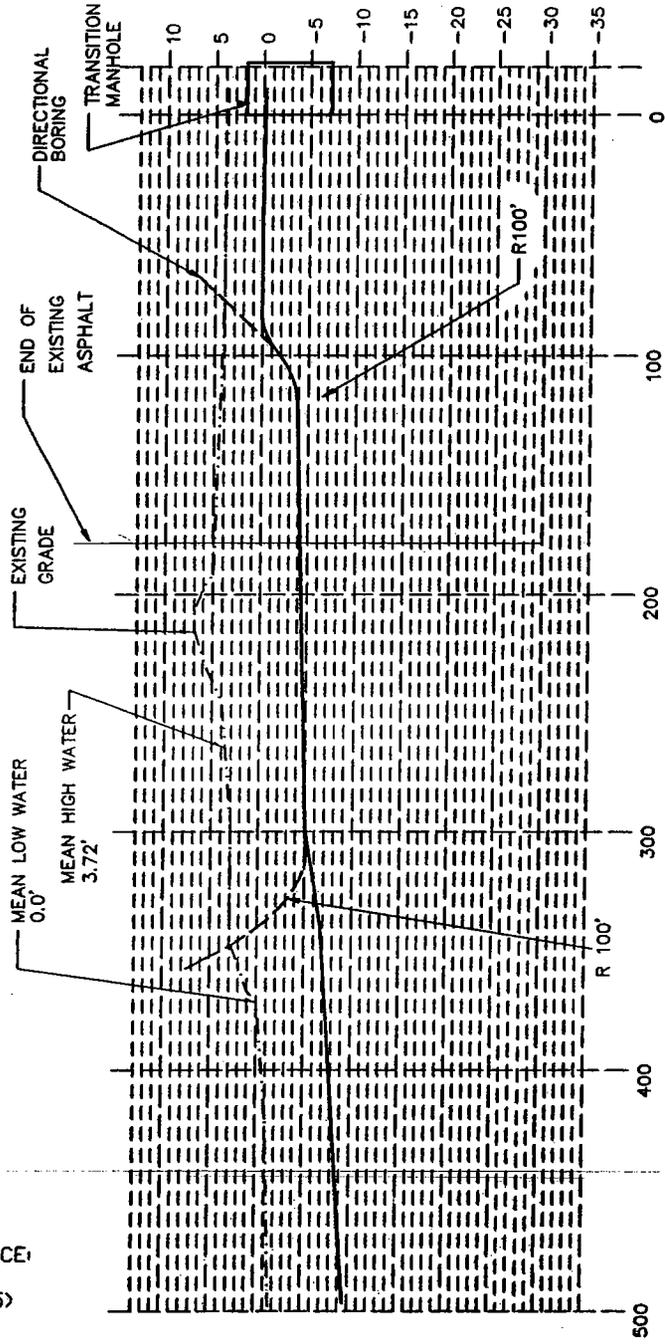
BAR SCALE
 0 525 1,150
 1 inch = 525 ft.

APPLICANT: NANTUCKET ELECTRIC CO
 A NATIONAL GRID COMPANY
 2 FAIRGROUNDS ROAD
 NANTUCKET, MA 02254

NANTUCKET ELECTRIC COMPANY
 NANTUCKET CABLE PROJECT

ADJACENT TO: NANTUCKET SOUND
 AT: TOWN OF BARNSTABLE & NANTUCKET
 COUNTY: BARNSTABLE & NANTUCKET COUNTIES
 APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 7A OF 13
 DRAFT JUNE 21, 2004



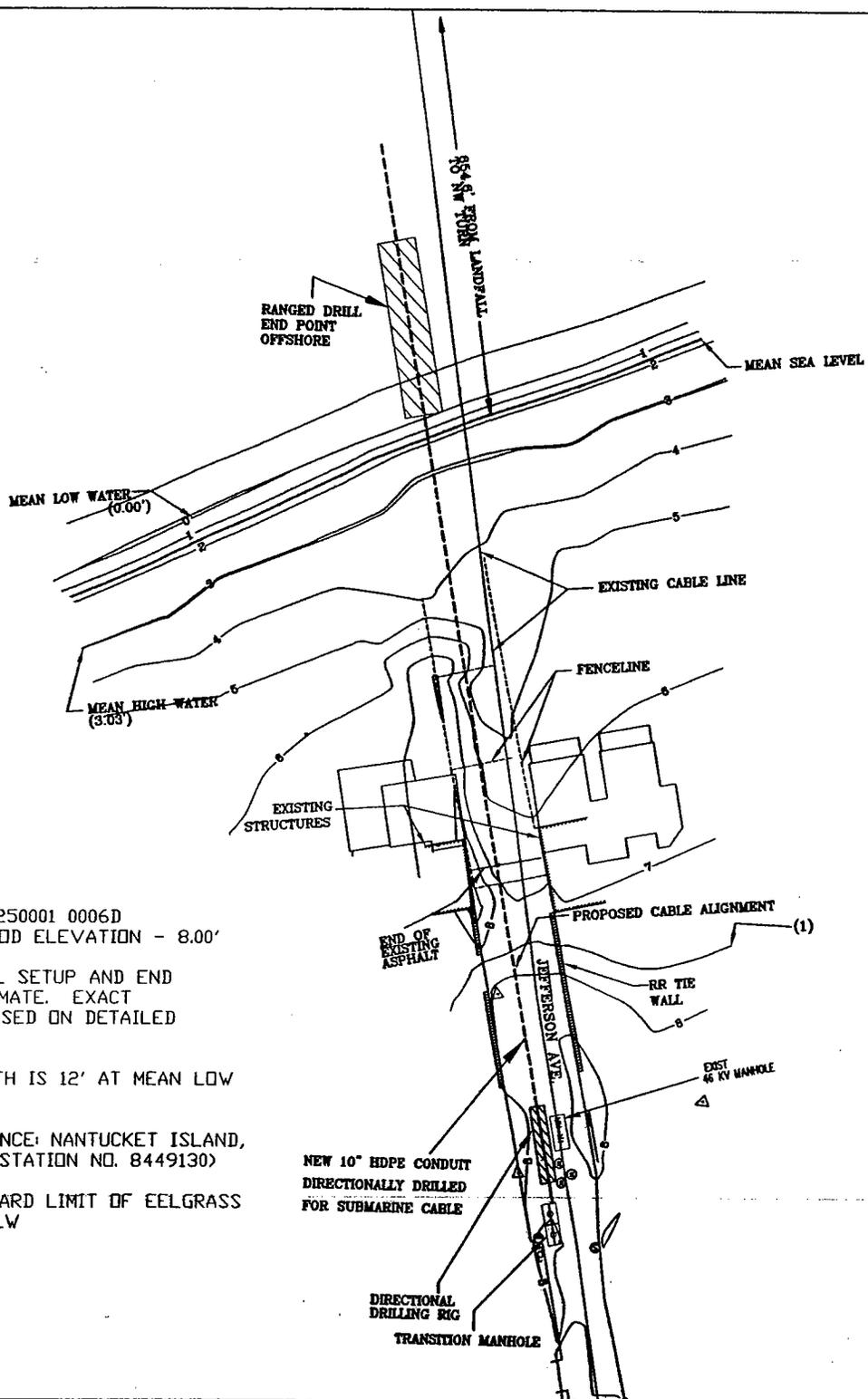
DIRECTIONAL BORING @ 8' DEPTH

HORIZONTAL SCALE 1"=80'
 VERTICAL SCALE 1"=20'

NOTES:

1) ELEVATIONS REFERENCE:
 SUQUATUCKET HARBOR
 (STATION NO. 8447495)

<p>PURPOSE: ELECTRIC TRANSMISSION LINE</p> <p>DATUM: SEE NOTE</p> <p>ADJACENT PROPERTY OWNERS: SEE ATTACHED NOTICE</p>	<p>CROSS-SECTION BARNSTABLE CABLE LANDFALL</p> <p>HORIZONTAL SCALE 1"=80' VERTICAL SCALE 1"=20'</p> <p>APPLICANT: NANTUCKET ELECTRIC CO A NATIONAL GRID COMPANY 2 FAIRGROUNDS ROAD NANTUCKET, MA 02254</p>	<p>NANTUCKET ELECTRIC COMPANY NANTUCKET CABLE PROJECT</p> <p>ADJACENT TO: NANTUCKET SOUND AT: TOWN OF BARNSTABLE & NANTUCKET COUNTY: BARNSTABLE & NANTUCKET COUNTIES APPLICATION BY: NANTUCKET ELECTRIC CO</p> <p>SHEET: 8 OF 13 DRAFT MAY 11, 2004</p>
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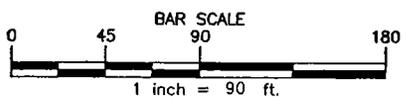
NOTES:

- 1) COMMUNITY PANEL 250001 0006D
FEMA 100-YEAR FLOOD ELEVATION - 8.00'
- 2) LOCATIONS OF DRILL SETUP AND END POINT ARE APPROXIMATE. EXACT LOCATION TO BE BASED ON DETAILED DESIGN
- 3) MINIMUM CABLE DEPTH IS 12' AT MEAN LOW WATER
- 4) ELEVATIONS REFERENCE: NANTUCKET ISLAND, NANTUCKET SOUND (STATION NO. 8449130)
- 5) APPROXIMATE LANDWARD LIMIT OF EELGRASS BED - 500' FROM MLW



PURPOSE: ELECTRIC TRANSMISSION LINE
 DATUM: SEE NOTES
 ADJACENT PROPERTY OWNERS:
 SEE ATTACHED NOTICE

**PLAN VIEW
 NANTUCKET LANDFALL**



APPLICANT: NANTUCKET ELECTRIC CO
 A NATIONAL GRID COMPANY
 2 FAIRGROUNDS ROAD
 NANTUCKET, MA 02254

**NANTUCKET ELECTRIC COMPANY
 NANTUCKET CABLE PROJECT**

ADJACENT TO: NANTUCKET SOUND
 AT: TOWN OF BARNSTABLE & NANTUCKET
 COUNTY: BARNSTABLE & NANTUCKET COUNTIES
 APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 9 OF 13
 DRAFT MAY 11, 2004

NANTUCKET SOUND

APPROXIMATE SEAWARD
LIMIT OF EELGRASS

PROPOSED
CABLE LINE

APPROXIMATE
LANDWARD LIMIT OF
EELGRASS

EXISTING
CABLE LINE

MEAN LOW WATER
(0.00')

MEAN HIGH
WATER (3.03')

NANTUCKET LANDFALL

NOTES:

- 1) COMMUNITY PANEL 250001 0006D
FEMA 100-YEAR FLOOD ELEVATION - 10'±
- 2) ELEVATIONS REFERENCE: NANTUCKET ISLAND,
NANTUCKET SOUND (STATION NO. 8449130)
- 3) MINIMUM CABLE DEPTH IS 12' AT MEAN LOW
WATER
- 4) AERIAL EXTENT OF EELGRASS SHOWN IS
REPRESENTATIVE BASED ON DATA PROVIDED
BY MASS-GIS
- 5) APPROXIMATE LANDWARD LIMIT OF EELGRASS
BED - 561' FROM MHW
- 6) WIDTH OF DISTURBANCE RESULTING FROM CABLE
INSTALLATION - 3'
- 7) APPROXIMATE LENGTH OF CABLE CROSSING
EELGRASS - 4,108'
- 8) APPROXIMATE AREA OF DIRECT DISTURBANCE
RESULTING FROM CABLE INSTALLATION - 24,649' SF

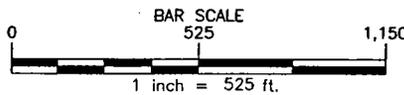


PURPOSE: ELECTRIC TRANSMISSION LINE

DATUM: SEE NOTES

ADJACENT PROPERTY OWNERS:
SEE ATTACHED NOTICE

PLAN VIEW
NANTUCKET LANDFALL
WITH EELGRASS

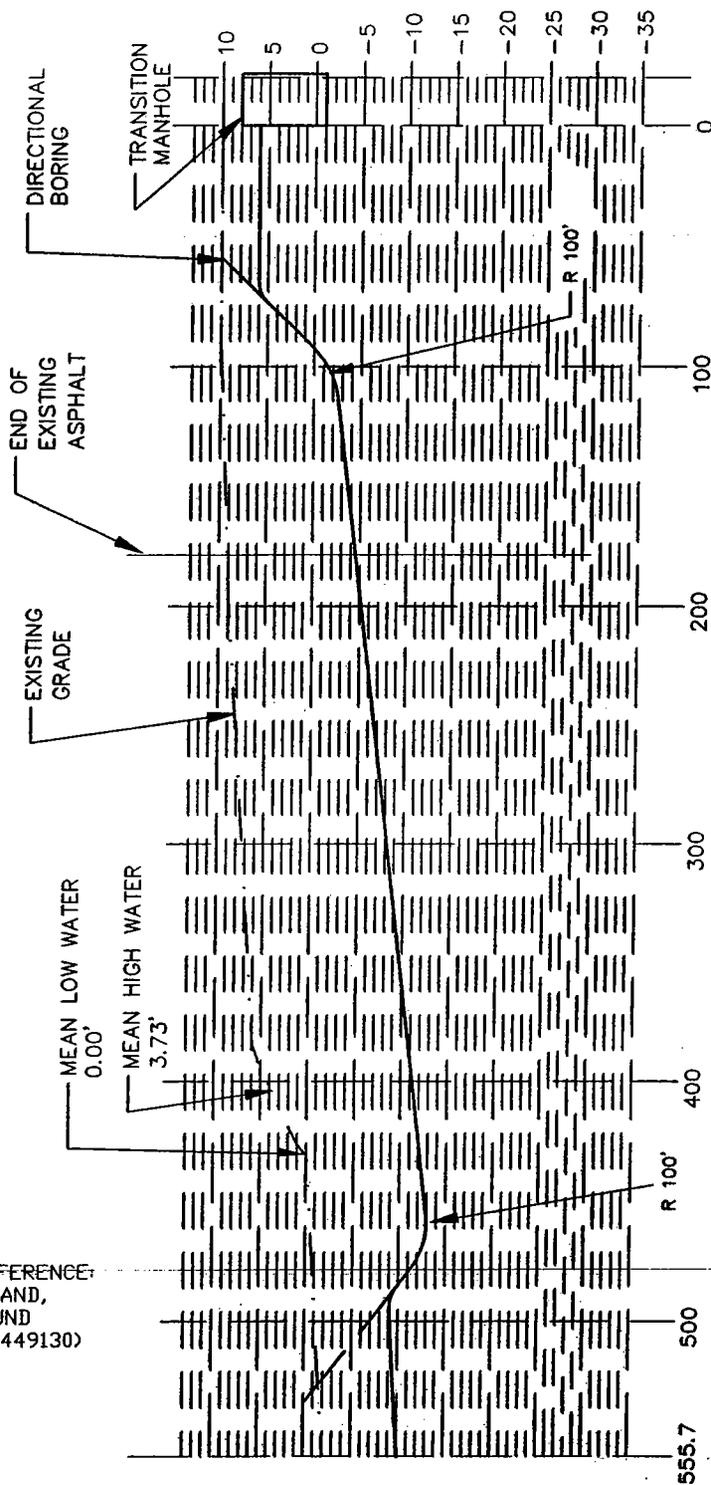


APPLICANT: NANTUCKET ELECTRIC CO
A NATIONAL GRID COMPANY
2 FAIRGROUNDS ROAD
NANTUCKET, MA 02254

NANTUCKET ELECTRIC COMPANY
NANTUCKET CABLE PROJECT

ADJACENT TO: NANTUCKET SOUND
AT: TOWN OF BARNSTABLE & NANTUCKET
COUNTY: BARNSTABLE & NANTUCKET COUNTIES
APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 9A OF 13
DRAFT JUNE 21, 2004



DIRECTIONAL BORING @ 12' DEPTH

HORIZONTAL SCALE 1"=80'
 VERTICAL SCALE 1"=20'

NOTES:

- 1) ELEVATIONS REFERENCE:
 NANTUCKET ISLAND,
 NANTUCKET SOUND
 (STATION NO. 8449130)

PURPOSE: ELECTRIC TRANSMISSION LINE

DATUM: SEE NOTE

ADJACENT PROPERTY OWNERS:
 SEE ATTACHED NOTICE

CROSS-SECTION
 NANTUCKET LANDFALL

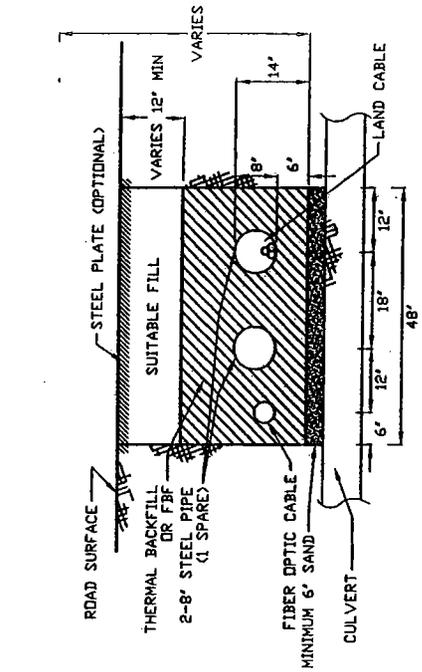
HORIZONTAL SCALE 1"=80'
 VERTICAL SCALE 1"=20'

APPLICANT: NANTUCKET ELECTRIC CO
 A NATIONAL GRID COMPANY
 2 FAIRGROUNDS ROAD
 NANTUCKET, MA 02254

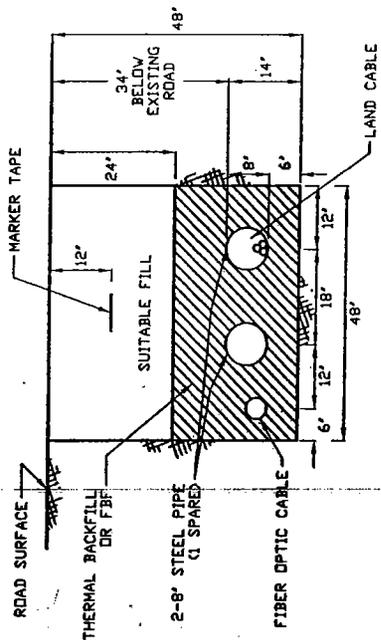
NANTUCKET ELECTRIC COMPANY
 NANTUCKET CABLE PROJECT

ADJACENT TO: NANTUCKET SOUND
 AT: TOWN OF BARNSTABLE & NANTUCKET
 COUNTY: BARNSTABLE & NANTUCKET COUNTIES
 APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 10 OF 13
 DRAFT MAY 11, 2004



DETAIL 'B'
TRENCH DETAIL
CULVERT CROSSING



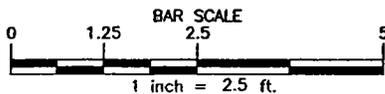
DETAIL 'A'
TRENCH DETAIL
DUCT LINES
1-4" PVC
2-8" STEEL

PURPOSE: ELECTRIC TRANSMISSION LINE

**CROSS-SECTION
TYPICAL LAND CABLE TRENCH**

**NANTUCKET ELECTRIC COMPANY
NANTUCKET CABLE PROJECT**

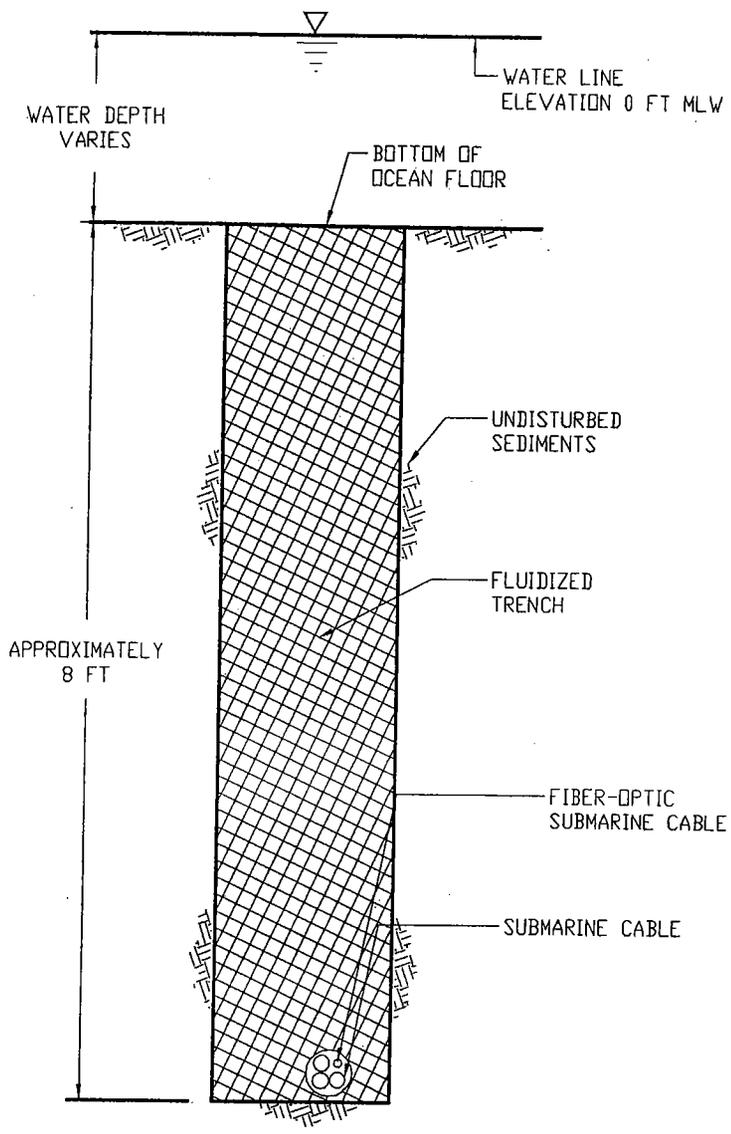
ADJACENT PROPERTY OWNERS:
SEE ATTACHED NOTICE



APPLICANT: NANTUCKET ELECTRIC CO
A NATIONAL GRID COMPANY
2 FAIRGROUNDS ROAD
NANTUCKET, MA 02254

ADJACENT TO: NANTUCKET SOUND
AT: TOWN OF BARNSTABLE & NANTUCKET
COUNTY: BARNSTABLE & NANTUCKET COUNTIES
APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 11 OF 13
DRAFT MAY 11, 2004



NOTE:

NOT TO SCALE

SEE SHEET 11 DETAIL "A" FOR CROSS SECTION OF LAND CABLE TRENCH

PURPOSE: ELECTRIC TRANSMISSION LINE

ADJACENT PROPERTY OWNERS:
SEE ATTACHED NOTICE

CROSS SECTION
SEABED AREA DISTURBED
DURING JET FLOW
INSTALLATION

NOT TO SCALE

APPLICANT: NANTUCKET ELECTRIC CO
A NATIONAL GRID COMPANY
2 FAIRGROUNDS ROAD
NANTUCKET, MA 02254

NANTUCKET ELECTRIC COMPANY
NANTUCKET CABLE PROJECT

ADJACENT TO: NANTUCKET SOUND
AT: TOWN OF BARNSTABLE & NANTUCKET
COUNTY: BARNSTABLE & NANTUCKET COUNTIES
APPLICATION BY: NANTUCKET ELECTRIC CO

SHEET: 12 OF 13
DRAFT MAY 11, 2004

