



**US Army Corps
of Engineers** ®
New England District

696 Virginia Road
Concord, MA 01742-2751

PUBLIC NOTICE

Date: February 26, 2008
Comment Period Ends: March 26, 2008
File Number: NAE-2005-350
In Reply Refer To: Kevin R. Kotelly, P.E.
Or by e-mail: kevin.r.kotelly@usace.army.mil

The District Engineer has received a permit application from the applicant below to **conduct work in waters of the United States** as described below. The Corps is soliciting comments on both the project itself and the range of issues to be addressed in the environmental documentation.

APPLICANT

Siasconset Beach Preservation Fund

ACTIVITY

The proposed project involves work below the mean high water line and the discharge of dredged or fill material into waters of the United States in order to create six acres of cobble bottom habitat within six distinct 1-acre square areas to the east of Nantucket offshore of Quidnet. The activity is intended as a pilot project to field test a method of cobble bottom replication. To replicate the cobble bottom habitat, the pilot project will place natural, cobble-sized, rocks and a limited number of reef balls within the six separate plots. Approximately 2,900 cubic yards of cobble sized rocks will be placed to generate the targeted densities of exposed cobble bottom habitat. The six plots will be monitored to assess benthic colonization and habitat development and to evaluate the methodology for replicating cobble bottom habitat. The work is described on the enclosed plans entitled, "SBPF Pilot Mitigation Project, Nantucket Island, Massachusetts," on seven sheets, and dated, January 2, 2008.

WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in the Atlantic Ocean along and off the coast of Sconset Beach in Nantucket, Massachusetts. The proposed location on the USGS Nantucket quadrangle sheet is at coordinates Latitude 41°18'27.03" N and Longitude 69°58'36.71" E.

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
 Section 404 of the Clean Water Act
 Section 103 of the Marine Protection, Research and Sanctuaries Act.

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

CENAE-R-PEA
FILE NO. NAE-2005-350

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.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

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.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH).

This project will have an adverse effect on approximately 6 acres of Essential Fish Habitat (EFH) for various life stages of Atlantic butterfish (*Peprilus triacanthus*), Atlantic cod (*Gadus morhua*), Atlantic halibut (*Hippoglossus hippoglossus*), Atlantic mackerel (*Scomber scombrus*), black sea bass (*Centropristus striata*), blue shark (*Prionace glauca*), bluefin tuna (*Thunnus thynnus*), haddock (*Melanogrammus aeglefinus*), long finned squid (*Loligo pealei*), monkfish (*Lophius americanus*), scup (*Stenotomus chrysops*), short finned squid (*Illex illecebrosus*), summer flounder (*Paralichthys dentatus*), surf clam (*Spisula solidissima*), and winter flounder (*Pleuronectes americanus*). Habitat at this site can be described as subtidal sandy shoal. Loss of this habitat may adversely affect the species listed above.

The District Engineer has made a preliminary determination that site-specific impacts may be substantial. Accordingly, the Corps of Engineers will submit an EFH assessment to the 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.

SECTION 106 COORDINATION

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 fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

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 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.

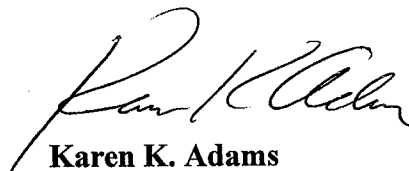
In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Kevin R. Kotelly, P.E. at (978) 318-8703, (800) 343-4789 or (800) 362-4367, 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.

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.

For more information on the New England District Corps of Engineers programs, visit our website at <http://www.nae.usace.army.mil>.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.



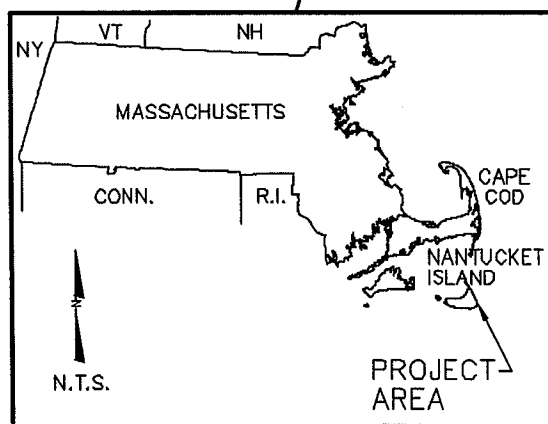
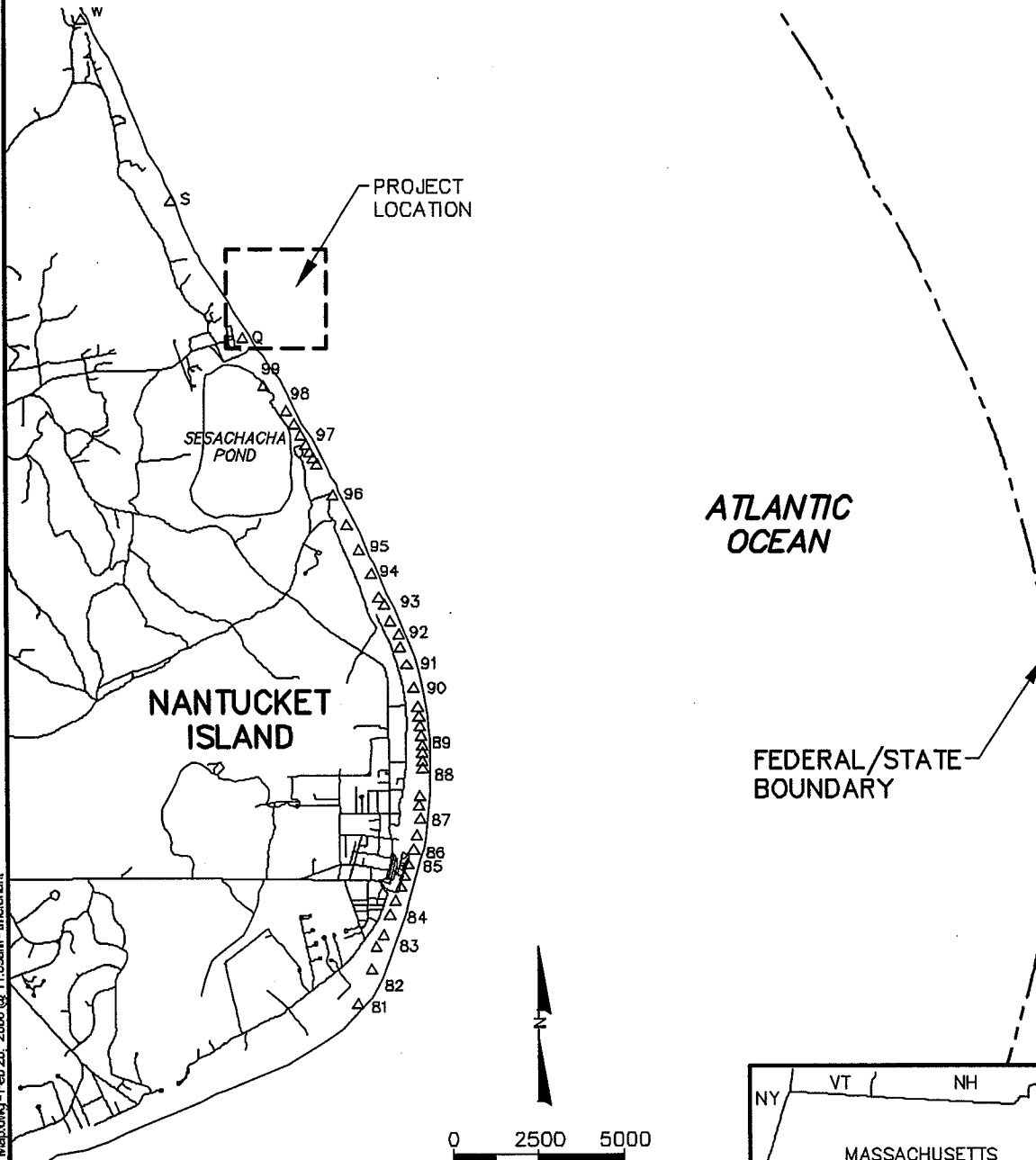
Karen K. Adams
Chief, Permits and Enforcement Branch
Regulatory Division

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FILE NO. NAE-2005-350

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: _____

SCONSET BEACH PRESERVATION FUND PILOT MITIGATION STUDY NANTUCKET ISLAND, MASSACHUSETTS



**SBPF PILOT MITIGATION STUDY
NANTUCKET ISLAND, MASSACHUSETTS
PROJECT LOCATION MAP**

COASTAL PLANNING & ENGINEERING, INC.
 P.O. BOX 13914102
 BOCA RATON, FLORIDA 33481
 TEL: (561) 391-4102
 FAX: (561) 391-4116
 C.O.A. #L-14028
 C.D.A. #A-142331
 www.CoastalPlanning.com



DATE: 1/2/08
 BY: TM

SHEET INDEX	
NO.	TITLE
1	PROJECT LOCATION MAP
2	PROJECT PLAN VIEW
3-4	CROSS SECTIONS

**NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY**

REVISIONS		
DATE	BY	DESCRIPTION

GORDON THOMSON P.E. NO. 47220

DATE

COMM NO.: 9900.10
 SHEET: 1

H:\Massachusetts\Nantucket\990010\Permits\990010 Location Map.dwg - Feb 20, 2008 @ 11:09am - lmerchant

N 115000

E 1783000

N 115000

E 1784000

NOTES:

1. BATHYMETRIC SURVEY CONDUCTED BY CR ENVIRONMENTAL, DEC. 2007.
2. COORDINATES SHOWN ARE BASED ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, ISLAND ZONE, NORTH AMERICAN DATUM OF 1983 (MA83-ISF).
3. ELEVATIONS SHOWN ARE BASED ON MEAN LOWER LOW WATER (MLLW).
4. DATE OF AERIAL PHOTOGRAPH: APRIL 2005.

LEGEND:

- Δ^Q MONUMENT LOCATION
- 2006 MEAN LOW WATER (0')
- 2006 MEAN HIGH WATER (3.0')
- - - - 2006 HIGH TIDE LINE (4.3')



**SBPF PILOT MITIGATION PROJECT
 NANTUCKET ISLAND, MASSACHUSETTS
 PROJECT PLAN VIEW**

COASTAL PLANNING & ENGINEERING, INC.
 P.O. BOX 354-012
 BOCA RATON, FLORIDA 33431
 TEL: (561) 391-4116
 FAX: (561) 391-4116
 C.O.A. P.L. #4029
 C.O.A. I.A. #2331

2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 WWW.COPEERING.COM



DATE: 1/2/08

BY: TM

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SHEET: 2

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REVISIONS		
DATE	BY	DESCRIPTION

GORDON THOMSON P.E. NO. 47220

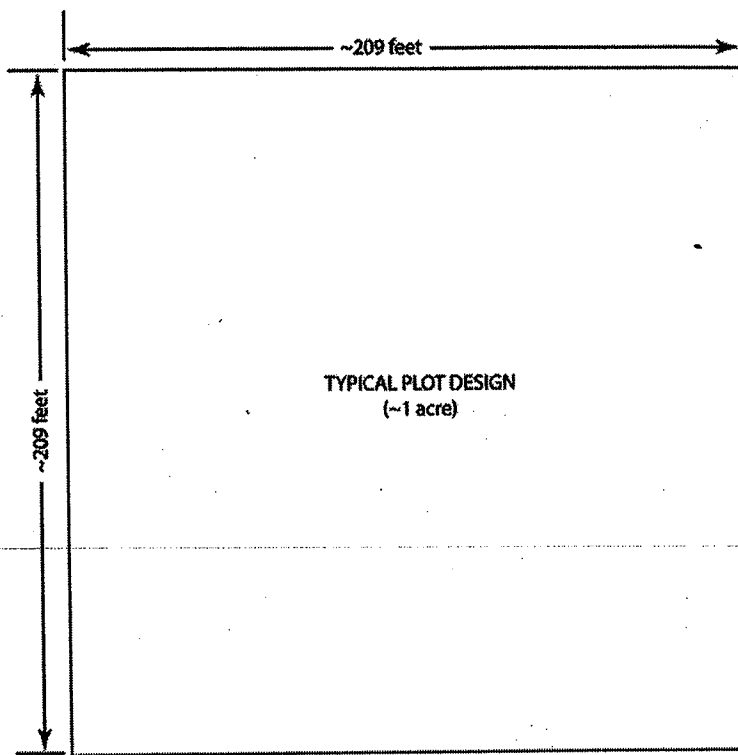
DATE

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 s:\Nantucket\9900\10\IP\ermits\9900.10_PV.dwg - Jan 07, 2008 @ 11:18am - brmchant

Coordinates of experimental plots for the Pilot Cobble Bottom Mitigation Project.

Plot	Corners	Longitude	Latitude	Longitude	Latitude
Offshore North	NW	-69.97699367330	41.309366742770	-69° 58' 37.1784"	41° 18' 35.5206"
	NE	-69.97632402240	41.31013530740	-69° 58' 34.8018"	41° 18' 36.486"
	SE	-69.97597887730	41.29963563300	-69° 58' 33.5238"	41° 18' 34.689"
	SW	-69.9765405870	41.30965662040	-69° 58' 35.9538"	41° 18' 33.717"
Offshore Middle	NW	-69.97599570110	41.30809663450	-69° 58' 33.585"	41° 18' 29.1486"
	NE	-69.97533613370	41.30836450800	-69° 58' 31.209"	41° 18' 30.114"
	SE	-69.97498093610	41.30786483090	-69° 58' 29.931"	41° 18' 28.3134"
	SW	-69.97565610310	41.30759482430	-69° 58' 32.3616"	41° 18' 27.3414"
Offshore South	NW	-69.9749929230	41.30709073520	-69° 58' 29.2764"	41° 18' 25.527"
	NE	-69.9741973030	41.30735860170	-69° 58' 26.904"	41° 18' 26.4918"
	SE	-69.97378454750	41.30685892090	-69° 58' 25.6218"	41° 18' 24.6924"
	SW	-69.97445970900	41.30658892140	-69° 58' 28.0554"	41° 18' 23.7204"
Nearshore North	NW	-69.97925168980	41.30921543350	-69° 58' 45.3072"	41° 18' 33.174"
	NE	-69.9789212450	41.30948332610	-69° 58' 42.9312"	41° 18' 34.1388"
	SE	-69.97823689550	41.30898365910	-69° 58' 41.6526"	41° 18' 32.3424"
	SW	-69.97891206050	41.30871363300	-69° 58' 44.0826"	41° 18' 31.3704"
Nearshore Middle	NW	-69.9778773180	41.3074097250	-69° 58' 40.3608"	41° 18' 27.8676"
	NE	-69.9771817590	41.3080885700	-69° 58' 37.9842"	41° 18' 28.8318"
	SE	-69.9766296570	41.3070918580	-69° 58' 36.7062"	41° 18' 27.0324"
	SW	-69.975812100	41.30723916700	-69° 58' 39.1362"	41° 18' 26.0604"
Nearshore South	NW	-69.9769919650	41.30599336830	-69° 58' 37.0518"	41° 18' 21.5748"
	NE	-69.97629965470	41.30626124740	-69° 58' 34.6794"	41° 18' 22.539"
	SE	-69.97594446130	41.30576157340	-69° 58' 33.3978"	41° 18' 20.7432"
	SW	-69.97661960210	41.30549156110	-69° 58' 35.8314"	41° 18' 19.7712"

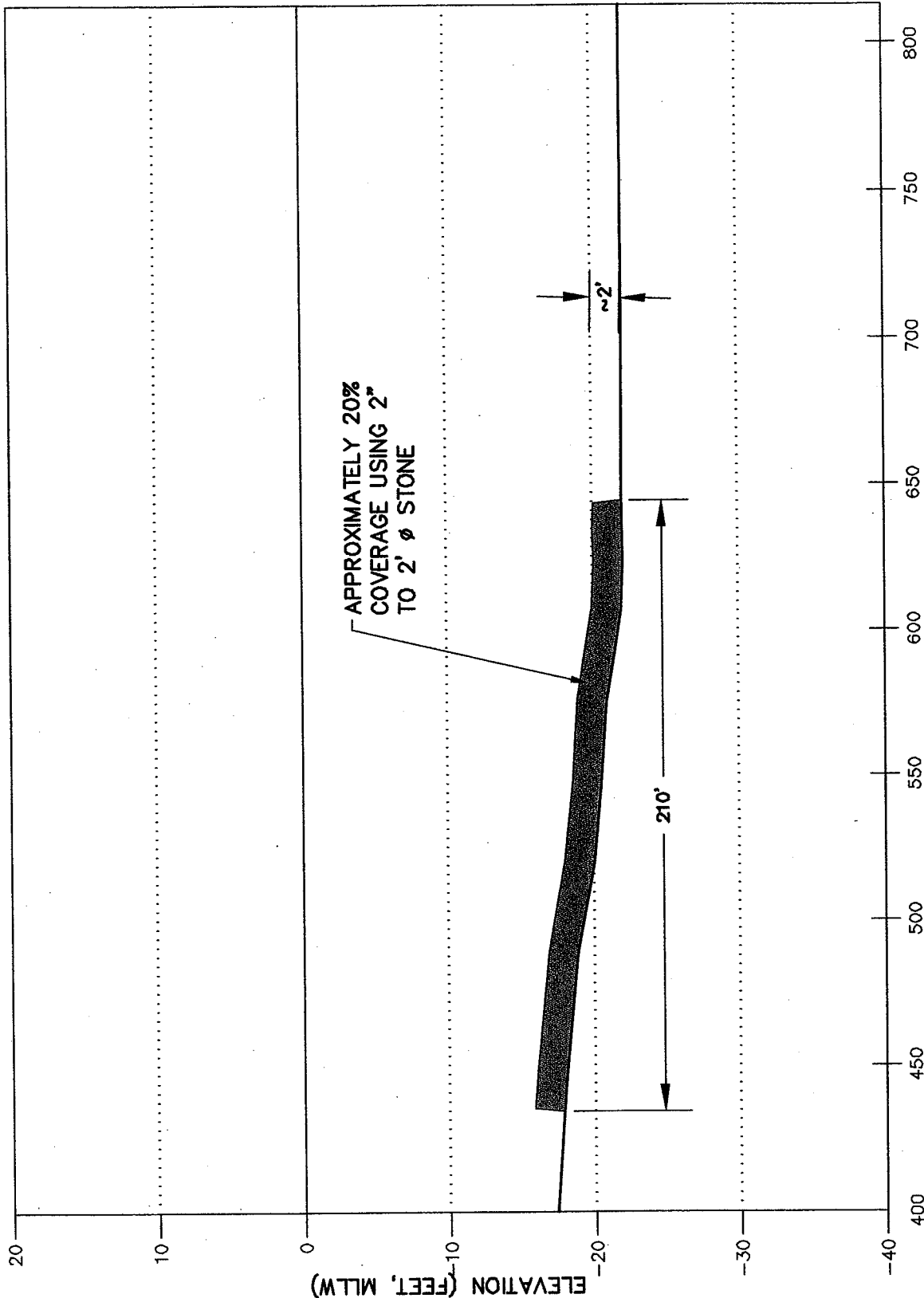
Conversion



Typical plan-view of an experimental plot.

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N3



SCALE: HORIZONTAL 1"=50'
VERTICAL 1"=10'

DISTANCE FROM MLW (FEET)

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GORDON THOMSON P.E. NO. 47220

DATE

REVISIONS		
DATE	BY	DESCRIPTION

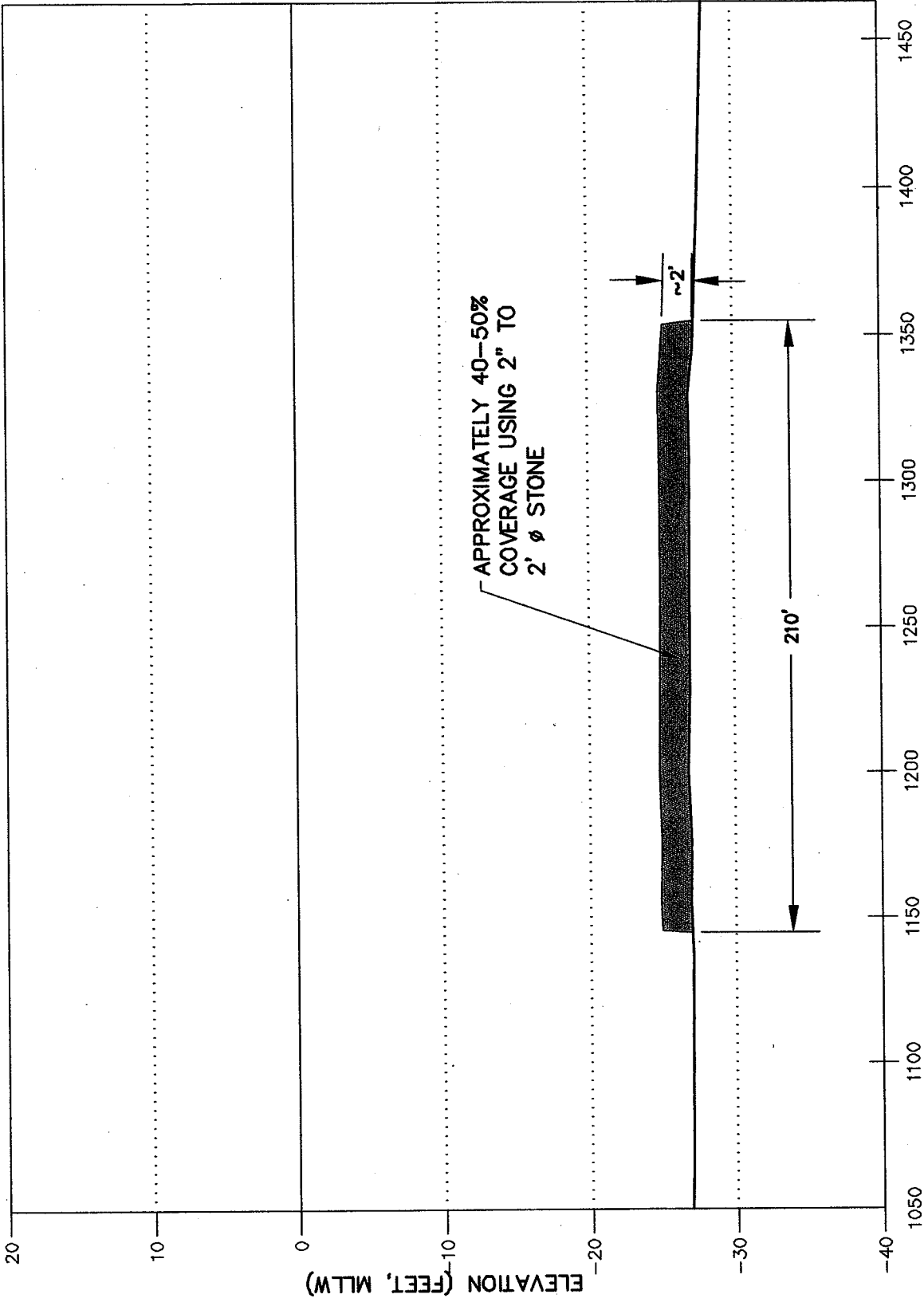
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BY: TM
COMM: 9900.10
SHEET: 3

CPE
COASTAL PLANNING & ENGINEERING, INC.
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 PH: (561) 391-4102
 FAX: (561) 391-6116
 C.O.A. #L 44028
 C.S.A. #A 20371
 www.coastalpe.com

**SBPF PILOT MITIGATION PROJECT
 NANTUCKET ISLAND, MASSACHUSETTS
 CROSS SECTION THROUGH N3**

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03



SCALE: HORIZONTAL 1"=50'
VERTICAL 1"=10'

DISTANCE FROM MLW (FEET)

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GORDON THOMSON P.E. NO. 47220

DATE

REVISIONS		
DATE	BY	DESCRIPTION

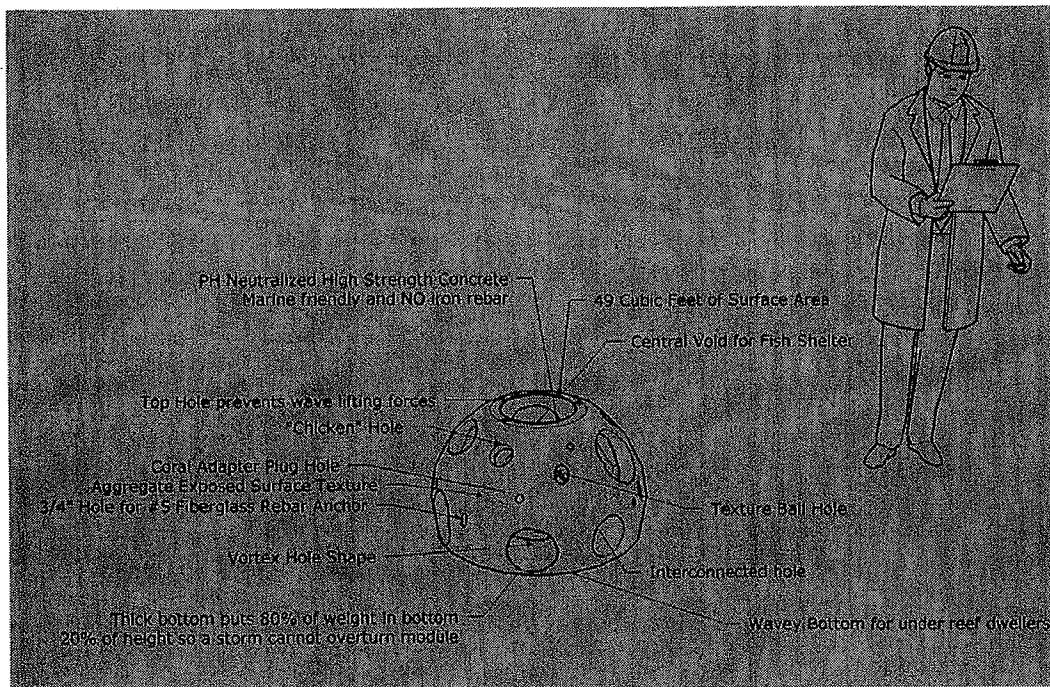
DATE: 1/2/08
BY: TM
COMM: 9900.10
SHEET: 4

COASTAL PLANNING & ENGINEERING, INC.
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www.CoastalPlanning.com



**SBPF PILOT MITIGATION PROJECT
NANTUCKET ISLAND, MASSACHUSETTS
CROSS SECTION THROUGH 03**

TITLE



Typical reef ball proposed for use in Pilot Cobble Bottom Mitigation Project.

The Pilot design includes placing 2-3 reef balls within each of the three experimental plots located 1,000-1,200 feet offshore where water depths are 20-30 feet. The design of the proposed reef balls will reflect the "Bay Ball" model, which is three feet in diameter and two feet high. The Bay Ball model weighs 375-750 pounds, contains 11-16 openings through the exterior wall, and provides approximately 30 square feet of surface area. Each reef ball will consist of 0.1 cubic yards of concrete featuring W.R. Grace's Force 10,000 micro silica, which results in a super-high-strength and abrasion-resistant concrete that has a pH similar to natural sea water. The reef balls will not contain any iron rebar.