JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS
69A Hagood Avenue
Charleston, South Carolina 29403-5107
and the
S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT
1362 McMillan Avenue, Suite 400
Charleston, South Carolina 29405

REGULATORY DIVISION
Refer to: P/N #SAC 2006-866-1IW – P

MAJOR ACTIVITY

21 APR 2006

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), and the South Carolina Coastal Zone Management Act (48-39-10 et.seq.) an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

THE SEA PINES COMPANY, INC.
c/o OLSEN ASSOCIATES, INC.
4438 HERSCHEL STREET
JACKSONVILLE, FLORIDA 32210

for a permit to place fill material and perform excavation in waters of

CALIBOGUE SOUND

at a location adjacent to the 18th green at the Harbour Town Golf Links on Calibogue Sound, 32 Greeenwood Drive, Hilton Head Island, Beaufort County, South Carolina (Latitude 32.136479° N, Longitude 80.814434° W)

In order to give all interested parties an opportunity to express their views

NOTICE

is hereby given that written statements regarding the proposed work will be received by both of the above mentioned offices until

12 O'CLOCK NOON, MONDAY, 22 MAY 2006

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists of placing 4,550 cubic yards of material in an area measuring approximately 1.6 acres to construct a 400 linear foot rock mound and three detached breakwaters in Calibogue Sound. The project also includes excavating from an area measuring 0.5 acres and placing 600 cubic yards silty sand behind (landward) the longest structure and plantings of *Spartina alterniflora,* smooth cordgrass, to reestablish salt marsh in this area. In the

area along the south side of the Harbour Town siltation barrier, rip-rap and a rubble mound spur will be installed as shown on sheets 2 and 3 of 8. The purpose of the project according to the applicant is "to create a stable shoreline seaward of the 18th green at a location and configuration sufficient to allow the reestablishment and maintenance of the tidal marsh similar to that which existed in the past."

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

U.S. Army Corps of Engineers
ATTN: REGULATORY DIVISION
69A Hagood Avenue
Charleston, South Carolina 29403-5107.

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The work shown on this application must also be certified as consistent with applicable provisions the Coastal Zone Management Program (15 CFR 930). The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 2.1 acres of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

Pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended), the District Engineer has consulted the most recently available information and has determined that the project is not likely to adversely affect any Federally endangered, threatened, or proposed species or result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request for written concurrence from the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service on this determination.

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed

undertaking.

In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

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 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 project. 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 activity.

If there are any questions concerning this public notice, please contact me at 843-329-8044 or toll free at 1-866-329-8187.

Debra W. King

Debra W. King
Project Manager
Regulatory Division
U.S. Army Corps of Engineers

Bill Eiser
Project Manager
SCDHEC-OCRM

Attachment A
PROJECT DESCRIPTION
Harbour Town Golf Links 18th Green - Marsh Restoration Project

This proposed project seeks to address chronic shoreline retreat and marsh loss caused by the presence of the Harbour Town marina entrance, and the attendant siltation barriers. More specifically, it proposes to reestablish and stabilize between 1 and 1.5 acres of a pre-existing marsh characterized predominately by smooth cordgrass (*Spartina alterniflora)* immediately seaward of the 18th green at the Harbour Town Golf Links on Calibogue Sound at Hilton Head Island, South Carolina in order to prevent the loss of the 18th green and fairway. The purpose of the project is to create a stable shoreline seaward of the 18th green at a location and configuration sufficient to allow the reestablishment and maintenance of the tidal marsh similar to that which existed in the past. A detailed assessment of the shoreline change history at this location is provided as Attachment B to this application.

The project will include the construction of a 400-ft long low relief, curvilinear, rock mound and three (3) detached rubble mound breakwaters for the purposes of stabilizing and protecting the re-created marsh area and minimizing wave reflections for the stabilizing structures. The area landward of the longest structure would be backfilled with silty sands to create a suitable substrate for the reintroduction of the smooth cordgrass (*Spartina alterniflora*), salt meadow (*Spartina Patens*), and sand cordgrass (*Spartina Bakeri*). The project would seek to reestablish the approximate 1986 (pre-siltation barrier) marsh and shoreline position and configuration.

The project will also include the installation of rip-rap and a small rubble mound spur on the south side of the southern Harbour Town siltation barrier. The purpose of this element of the project is to reduce the wave and erosional stresses associated with wave reflection from the vertical wall.

Sediment from a linear sand berm along a portion of the project shoreline will be used to partially recreate the marsh foundation. This sand berm is currently migrating into and causing the destruction of the adjacent upland marsh. Additionally, silty sands from the Harbour Town marina entrance channel and/or sand from local upland sources will be used as fill material to complete the marsh foundation. *This, however, is not an application for dredging of the Harbour Town Marina Entrance Channel.* Approximately 3,500 cubic yards of silty sand will be required as fill behind the rock structure to recreate the marsh foundation. It is estimated that approximately 500 to 600 cubic yards of sand are available in the sand berm along the existing

shoreline. An additional 3,000 to 3,500 cubic yards of potentially suitable fill material may be available in the entrance channel. A limited geotechnical evaluation of the entrance channel sediments has been performed and the results are provided in Attachment C to this application. In the event material from the entrance channel is used, careful control over dredging activities would be required to ensure that only the highest quality material is produced from the excavation and used as fill for the marsh foundation.

At least three shore perpendicular sand retaining sills constructed of stone-filled geogrid mattresses will be installed landward of the continuous rip-rap mound within the marsh foundation fill. The purpose of these structures will be to retain fill material during construction and reduce the potential for marsh foundation scouring during storm events when wave overtopping of the rip-rap mound is expected to occur. These structures will be completed buried by marsh foundation fill.

Tidal communication between the reestablished marsh and *Calibogue Sound* would be through the existing small tidal creek approximately 700 feet south of the southern Harbour Town entrance siltation barrier. Some tidal exchange would also occur as wave overtopping of the wall. It is anticipated that the reconstructed marsh would eventually experience regular tidal inundation similar to that across adjacent marshes once it achieves some form of equilibration following construction.

The project will also include a physical monitoring program to document tidal creek, adjacent beach, marsh, and nearshore area conditions and potential project related effects thereto.

Due to the high rate of shoreline and berm change and the changes in the location and limits erosion prior to construction, a detailed site survey will be performed immediately prior to construction and the landward limit of work and marsh grading plan will be reevaluated and adjusted accordingly.

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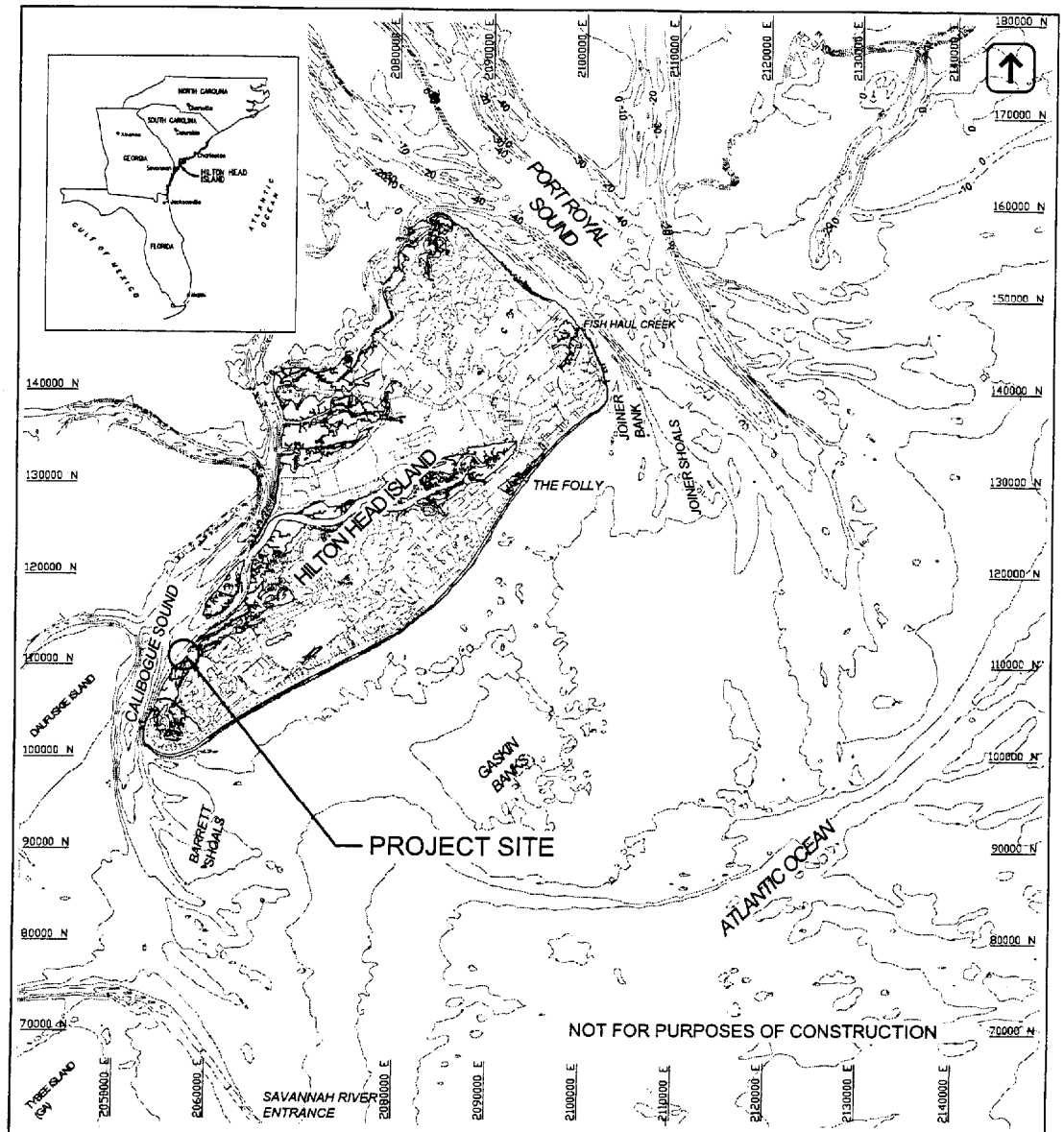
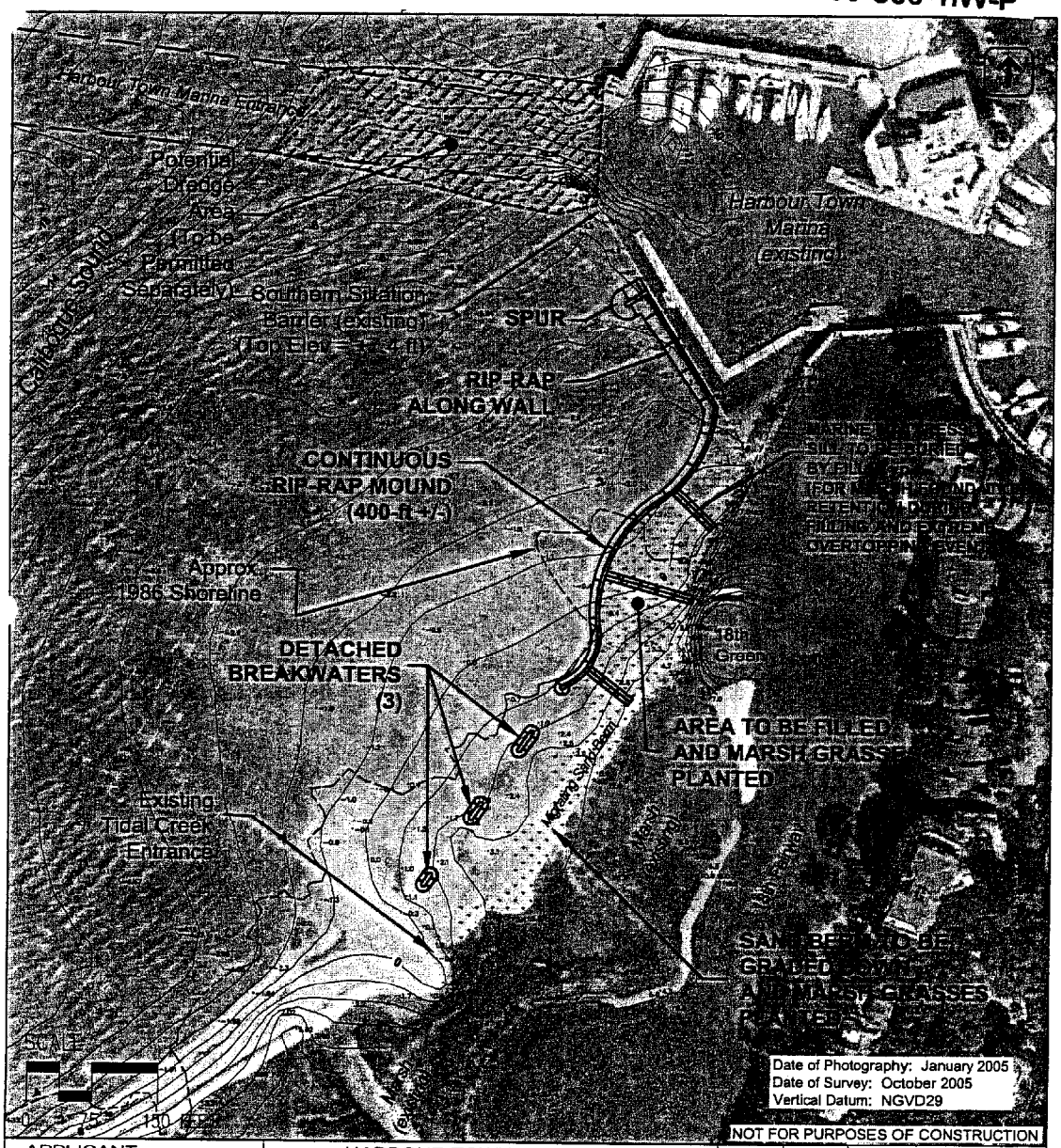


APPLICANT: THE SEA PINES COMPANY, INC. - HILTON HEAD ISLAND, SC.	HARBOUR TOWN GOLF LINKS MARSH RESTORATION AND 18TH GREEN SHORELINE STABILIZATION PROJECT LOCATION	DATE:	APPROVED	REVISION	DATE: 03/17/06 DRAWN BY: CGC SHEET 1 OF 8

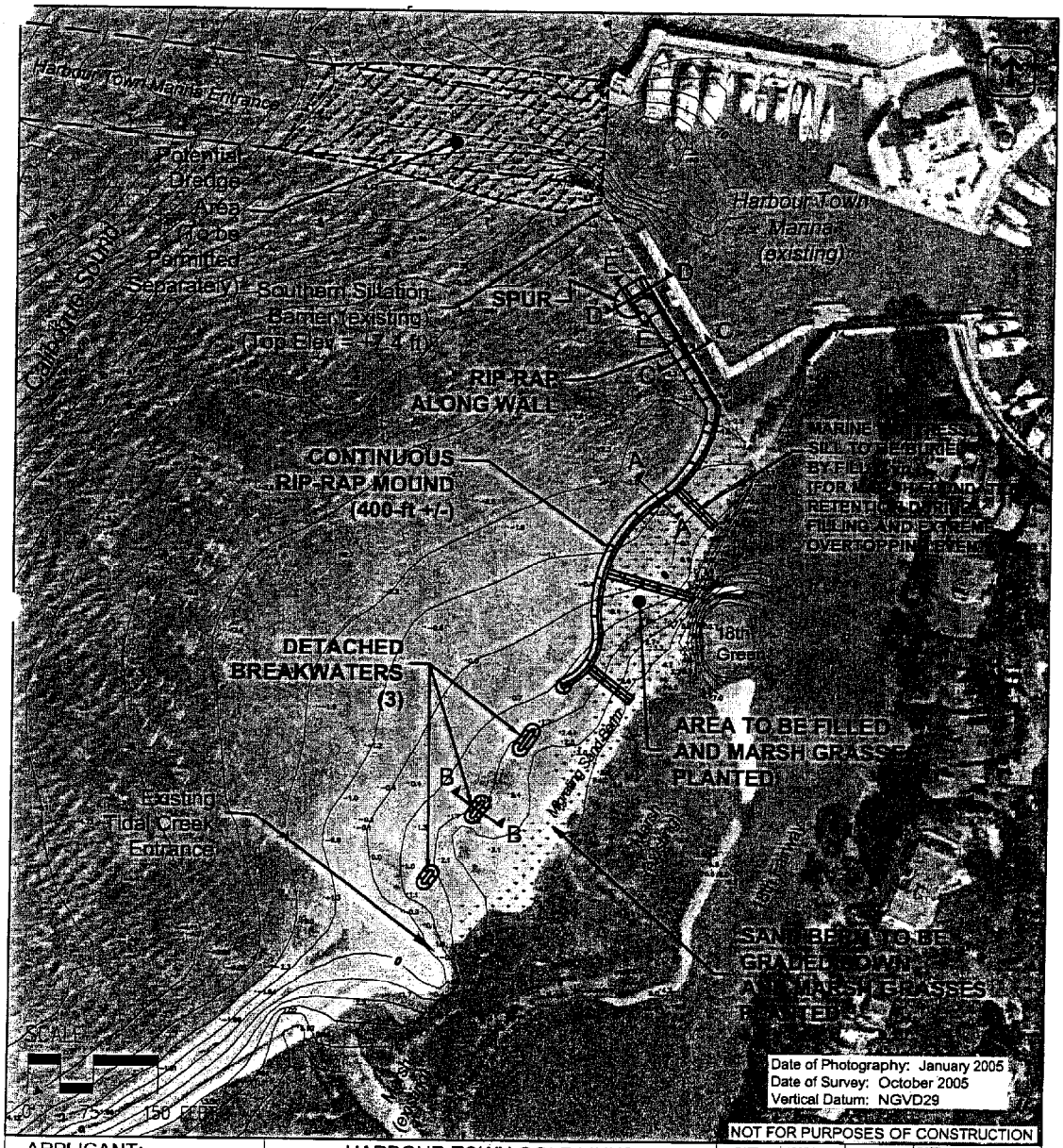
SAC 2006-866-1IW-P



NOT FOR PURPOSES OF CONSTRUCTION

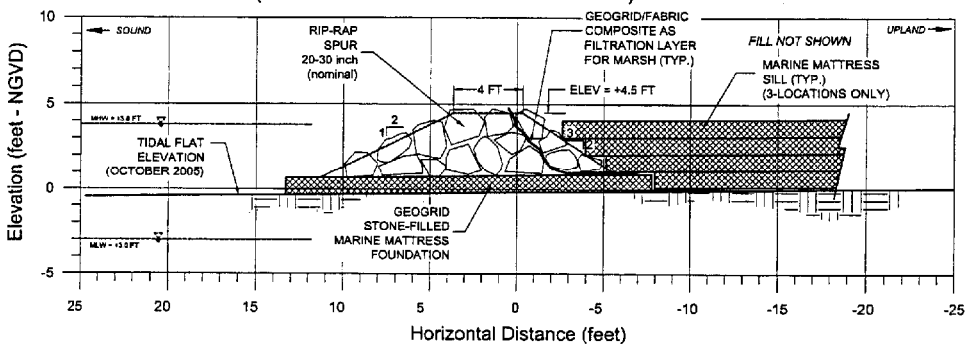
APPLICANT: THE SEA PINES COMPANY, INC. - HILTON HEAD ISLAND, SC.	HARBOUR TOWN GOLF LINKS MARSH RESTORATION AND 18TH GREEN SHORELINE STABILIZATION PLAN	DATE:	APPROVED	REVISION	DATE: 03/17/06 DRAWN BY: CGC SHEET 2 OF 8

SAC 2006-866-1IW-P

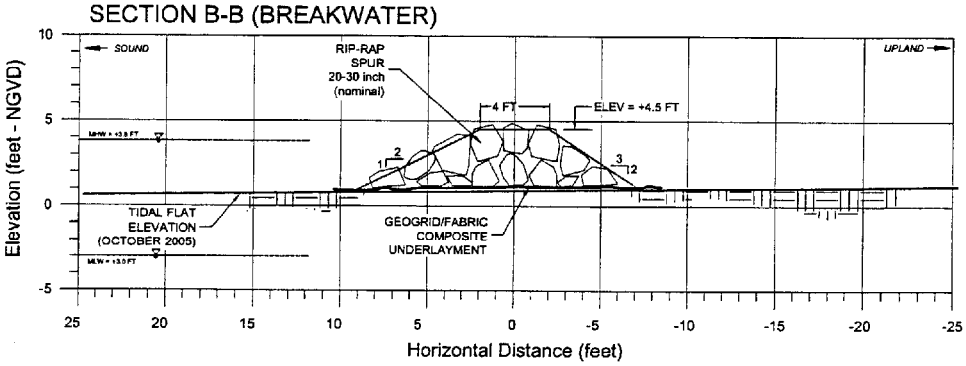


APPLICANT: THE SEA PINES COMPANY, INC. - HILTON HEAD ISLAND, SC.	HARBOUR TOWN GOLF LINKS MARSH RESTORATION AND 18TH GREEN SHORELINE STABILIZATION RIP-RAP SECTION LOCATIONS	DATE	APPROVED	REVISION	DATE 03/17/06 DRAWN BY: CGC SHEET 3 OF 8

SECTION A-A (CONTINUOUS RIP-RAP MOUND)



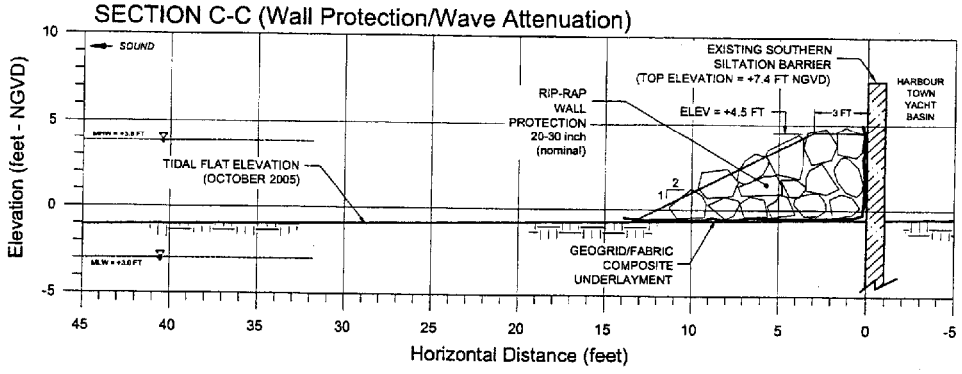
SECTION B-B (BREAKWATER)



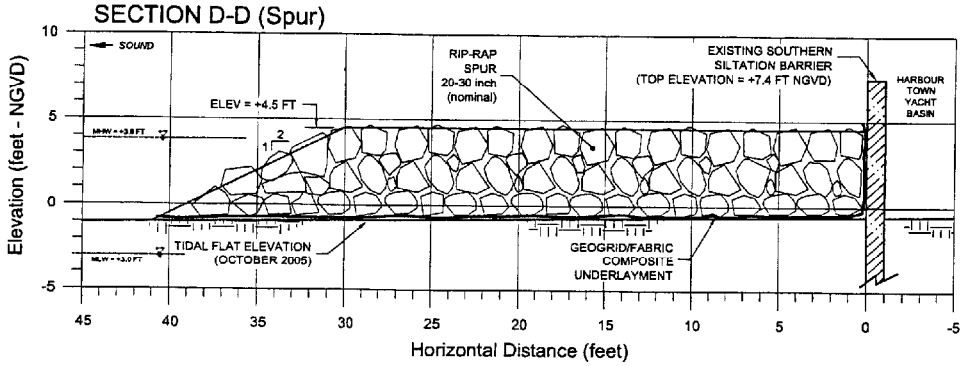
NOT FOR PURPOSES OF CONSTRUCTION

APPLICANT: THE SEA PINES COMPANY, INC. - HILTON HEAD ISLAND, SC.	HARBOUR TOWN GOLF LINKS MARSH RESTORATION AND 18TH GREEN SHORELINE STABILIZATION TYPICAL RIP-RAP MOUND AND BREAKWATER SECTIONS	DATE	APPROVED	REVISION	DATE: 03/17/06
					DRAWN BY: CGC
					SHEET 4 OF 8

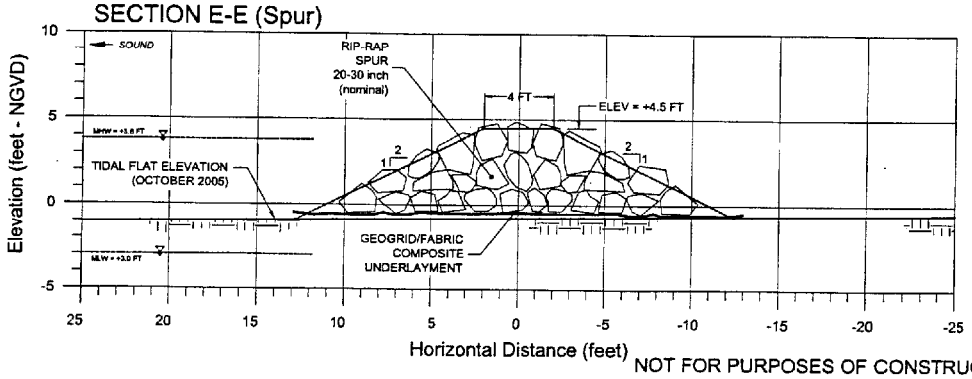
SECTION C-C (Wall Protection/Wave Attenuation)



SECTION D-D (Spur)



SECTION E-E (Spur)



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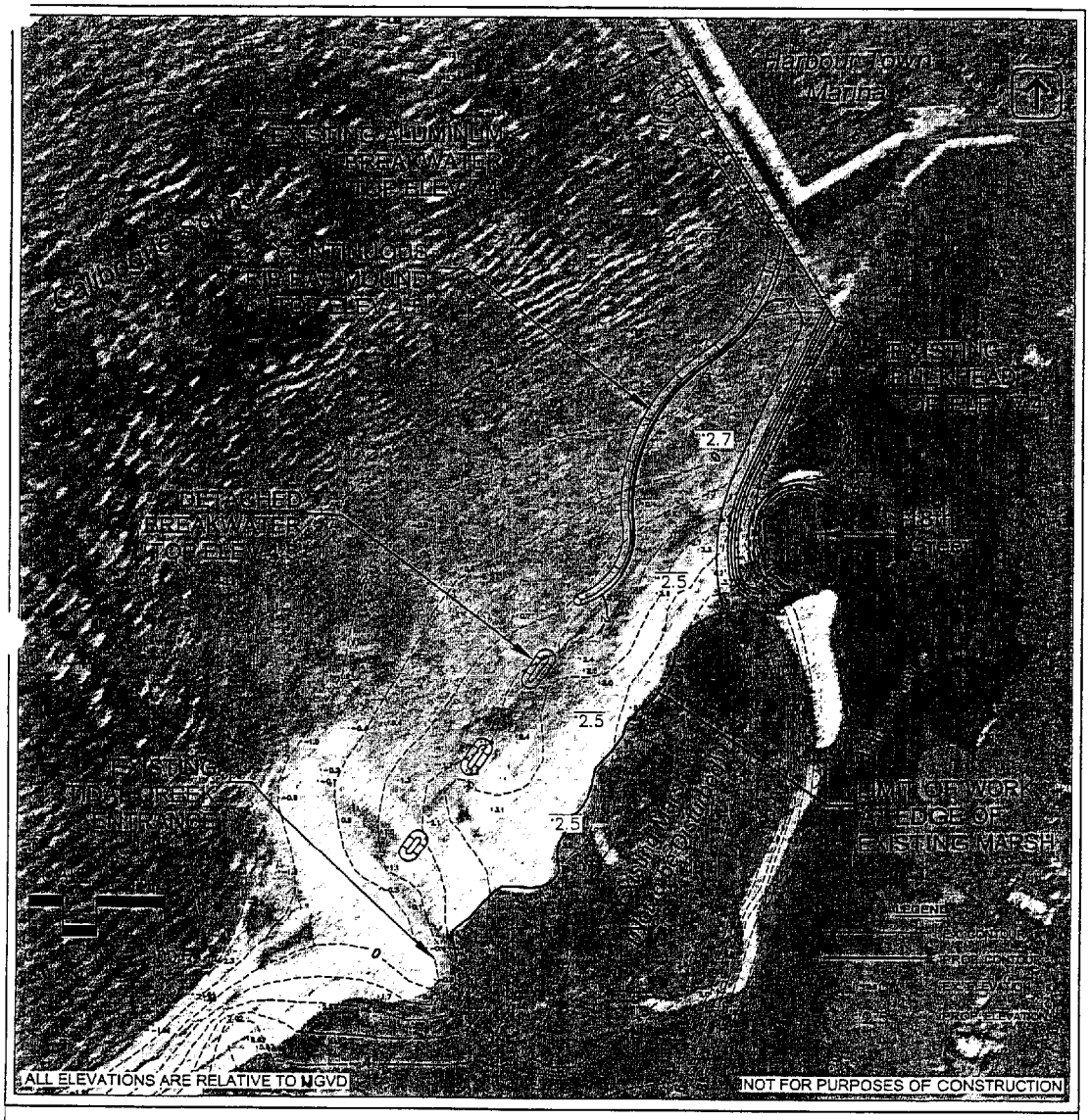
APPLICANT: THE SEA PINES COMPANY, INC. - HILTON HEAD ISLAND, SC.	HARBOUR TOWN GOLF LINKS MARSH RESTORATION AND 18TH GREEN SHORELINE STABILIZATION TYPICAL WALL PROTECTION SECTIONS	DATE	APPROVED	REVISION	DATE: 03/17/06
					DRAWN BY: CGC
					SHEET 5 OF 8



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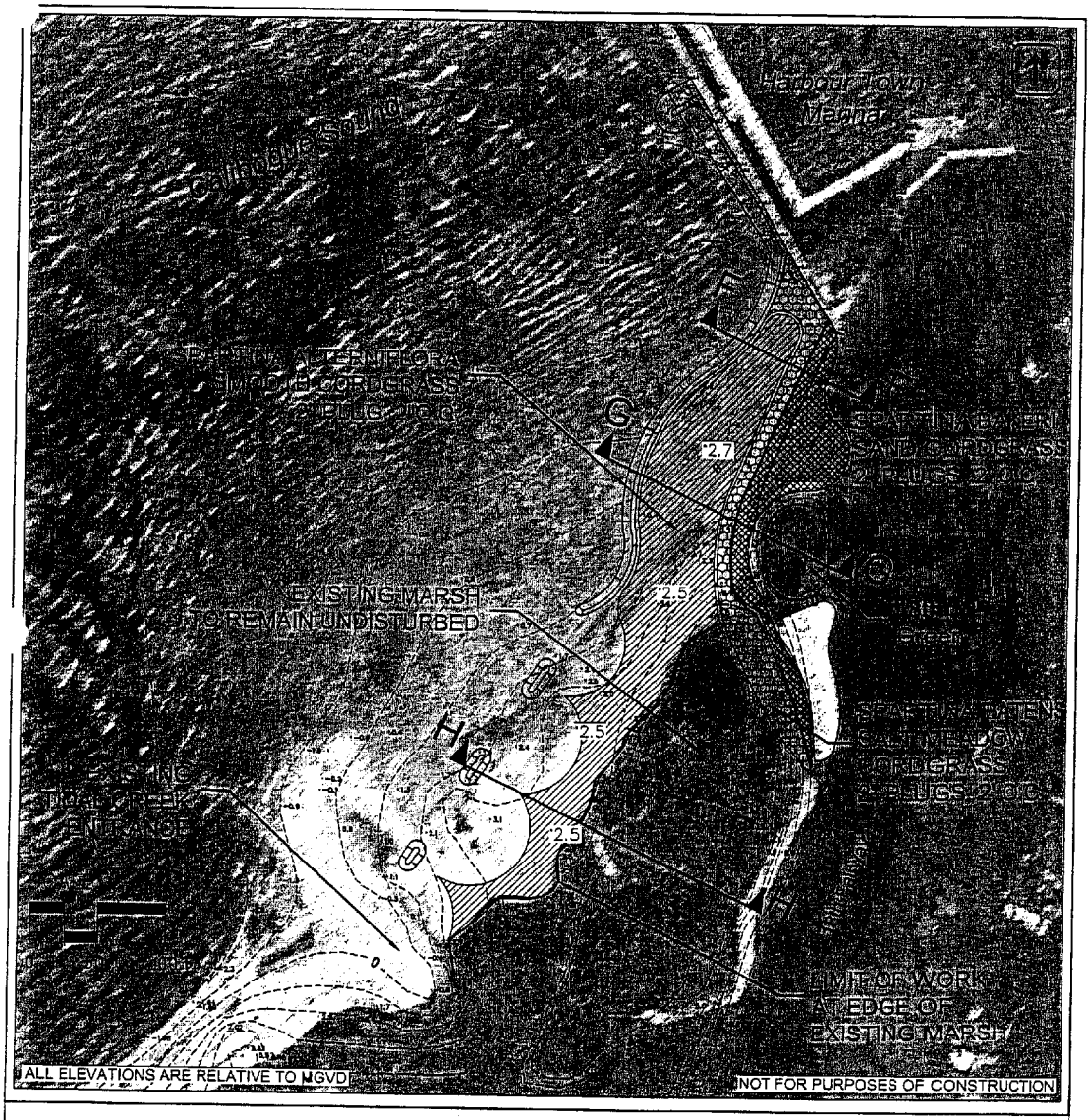
APPLICANT: THE SEA PINES COMPANY, INC. - HILTON HEAD ISLAND, SC.	HARBOUR TOWN GOLF LINKS MARSH RESTORATION AND 18TH GREEN SHORELINE STABILIZATION GRADING PLAN	DATE:	APPROVED	REVISION	DATE: 03/24/06 DRAWN BY: MC SHEET 6 OF 8



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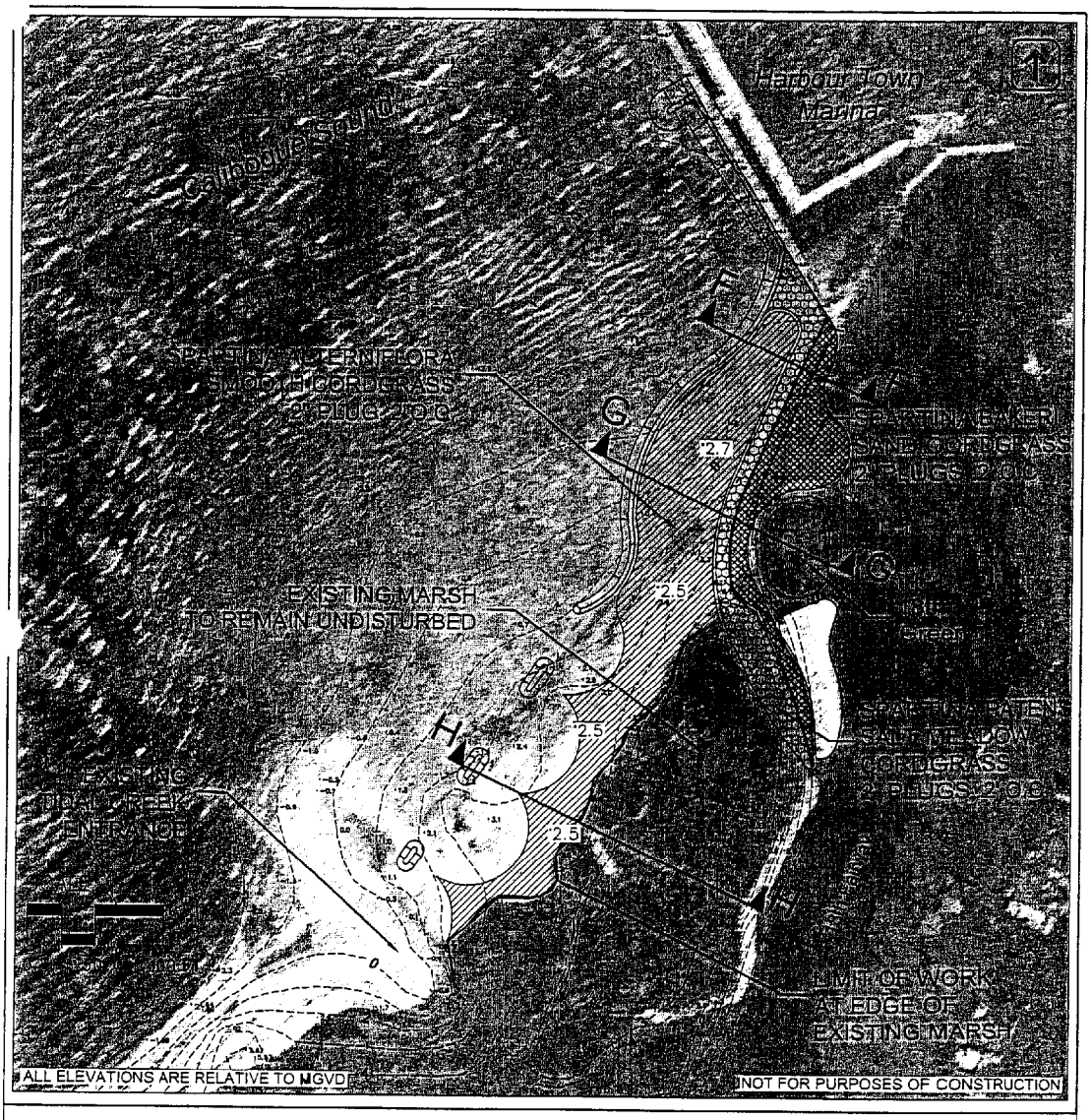
APPLICANT: THE SEA PINES COMPANY, INC. - HILTON HEAD ISLAND, SC.	HARBOUR TOWN GOLF LINKS MARSH RESTORATION AND 18TH GREEN SHORELINE STABILIZATION MARSH PLANTING PLAN	DATE:	APPROVED	REVISION	DATE: 03/24/06 DRAWN BY: MC SHEET 7 OF 8



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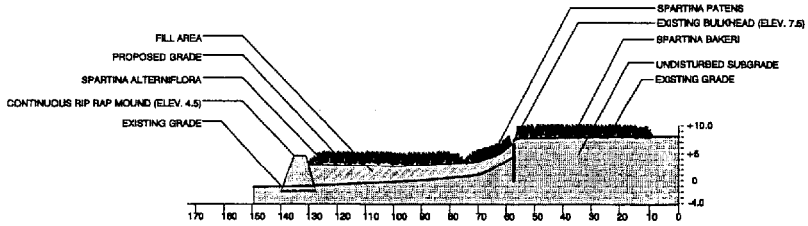
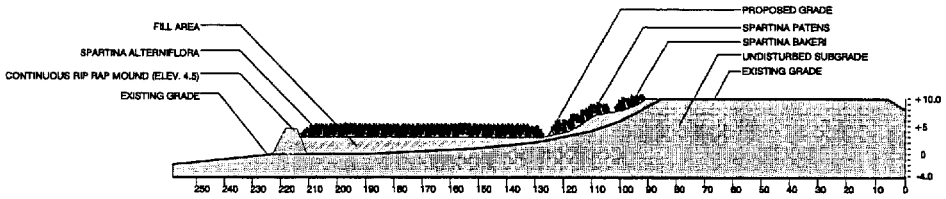
APPLICANT: THE SEA PINES COMPANY, INC. - HILTON HEAD ISLAND, SC.	HARBOUR TOWN GOLF LINKS MARSH RESTORATION AND 18TH GREEN SHORELINE STABILIZATION MARSH PLANTING PLAN	DATE:	APPROVED	REVISION	DATE: 03/24/06 DRAWN BY: MC SHEET 7 OF 8

SAC 2006-866-1IW-P



SECTION - F

HORIZONTAL SCALE 1"=60'
VERTICAL SCALE 1"=5'



SECTION - G

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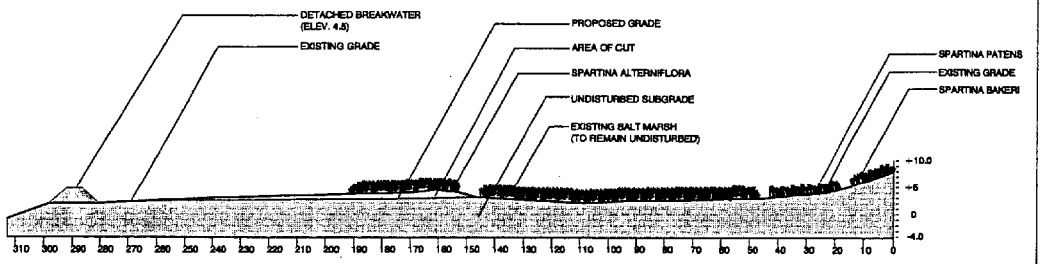

SECTION - H

HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=5'

ALL ELEVATIONS ARE RELATIVE TO MGVD

NOT FOR PURPOSES OF CONSTRUCTION

APPLICANT: THE SEA PINES COMPANY, INC. - HILTON HEAD ISLAND, SC.	HARBOUR TOWN GOLF LINKS MARSH RESTORATION AND 18TH GREEN SHORELINE STABILIZATION TYPICAL GRADING & MARSH SECTIONS	DATE:	APPROVED	REVISION	DATE: 03/24/06 DRAWN BY: MC SHEET 8 OF 8