Figure 13. Proposed site plan, northern section of project site (prepared by GMB, LLC).
PROPOSED Marine Construction Restoration

PROJECT: PASTURE POINT, JAMES FARM ECOLOGICAL PRESERVE:
RIP-RAP; SANDY FILL; VEGETATIVE STABILIZATION
IN: Pasture Point Cove, Indian River Bay
AT: James Farm Ecological Preserve,
Cedar Neck Road, Ocean View, Sussex Co., DE
(Tax Map Parcel # 1-34-6-93.01)
APPLICANT: Center for the Inland Bays
DATE: July, 2005

300 LB TO 600 LB, ARMOR STONE
PLACED & ROUGHLY CHINKED. CHINKING
STONES SHALL BE 100 LB TO 200 LB.
CHINKING SHALL BE CARRIED OUT AFTER
PLACEMENT OF ARMOR STONE IS
COMPLETED & ONLY TO FILL SURFACE
VOIDS SMALLER THAN ARMOR STONE.

MHW EL. = +0.52'
MLW EL. = -1.02'
EL. = -3.00'
SANDFILL
EX. GRADE

NOTE:
CONTRACTOR TO SELECTIVELY PLACE
LARGER STONE AT THE TOE OF THE
BREAKWATER WITH THE REMAINDER
PLACED IN A WELL GRADE DISTRIBUTION
TO THE TOP OF THE BREAKWATER.

BREAKEWATER SECTION

SANDFILL SECTION

Figure 15. Cross-sections of proposed project (prepared by GMB, LLC).
<table>
<thead>
<tr>
<th>Habitat</th>
<th>Current</th>
<th>Proposed</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marsh Beach</td>
<td>114,830 sf</td>
<td>146,145 sf</td>
<td>+31,315 sf</td>
</tr>
<tr>
<td></td>
<td>8,800 sf</td>
<td>41,472 sf</td>
<td>+32,672 sf</td>
</tr>
</tbody>
</table>
Big Piney Island, Rehoboth Bay, 1954
“Big Piney Island, however, has eroded over -9m/year and today is little more than a shoal. The erosion rates along the shoreline that had been previously sheltered by the two islands have more than tripled, probably due to the loss of the sheltering effect. Big Piney Island and Marsh Island will soon disappear causing the shoreline to be even more susceptible to winter storms.”

Swisher, 1982