



New Jersey Shore Protection

ENLOW PLACE BULKHEAD REPLACEMENT

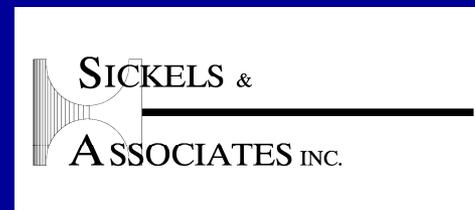
PHASE II



STEEL SHEET PILE BULKHEAD

&

STONE SCOUR PROTECTION



New Jersey Dept. of Environmental Protection
Office of Engineering & Construction
Bureau of Coastal Engineering
Benjamin Keiser, Manager

Township of Pennsville
Salem County, New Jersey
Richard D. Barnhart, Mayor



New Jersey's Shore Protection Program



**State of New Jersey
Jon S. Corzine, Governor**

**Dept. of Environmental Protection
Mark N. Mauriello, Acting Commissioner**

**Natural & Historic Resources
Amy Cradic, Assistant Commissioner**

**Office of Engineering & Construction
David Rosenblatt, Administrator**

Bureau of Coastal Engineering

Purpose...

To administer beach nourishment, shore protection and navigational dredging projects throughout the State to:

- **Provide for the protection of life and property along the coast**
- **Preserve our State's vital coastal resources**
- **Maintain safe and navigable waterways**



Shore Protection Fund

Dedicated for...

“To protect existing development and infrastructure from storm surges, sea-level rise and shoreline migration through dune creation and maintenance, beach nourishment projects, and construction and repair of shore protection structures.”

**\$25 million dedicated annually
Realty Transfer Tax (N.J.S.A. C.13:19-16.1)**



Shore Protection Funding

How It's Divided

Federal Projects - NJDEP - local sponsor in these projects

- Studies
- Storm Damage Reduction/Shore Protection
- Environmental Restoration

State Projects - Municipalities - local sponsor in these projects

- Storm Damage Reduction/Shore Protection

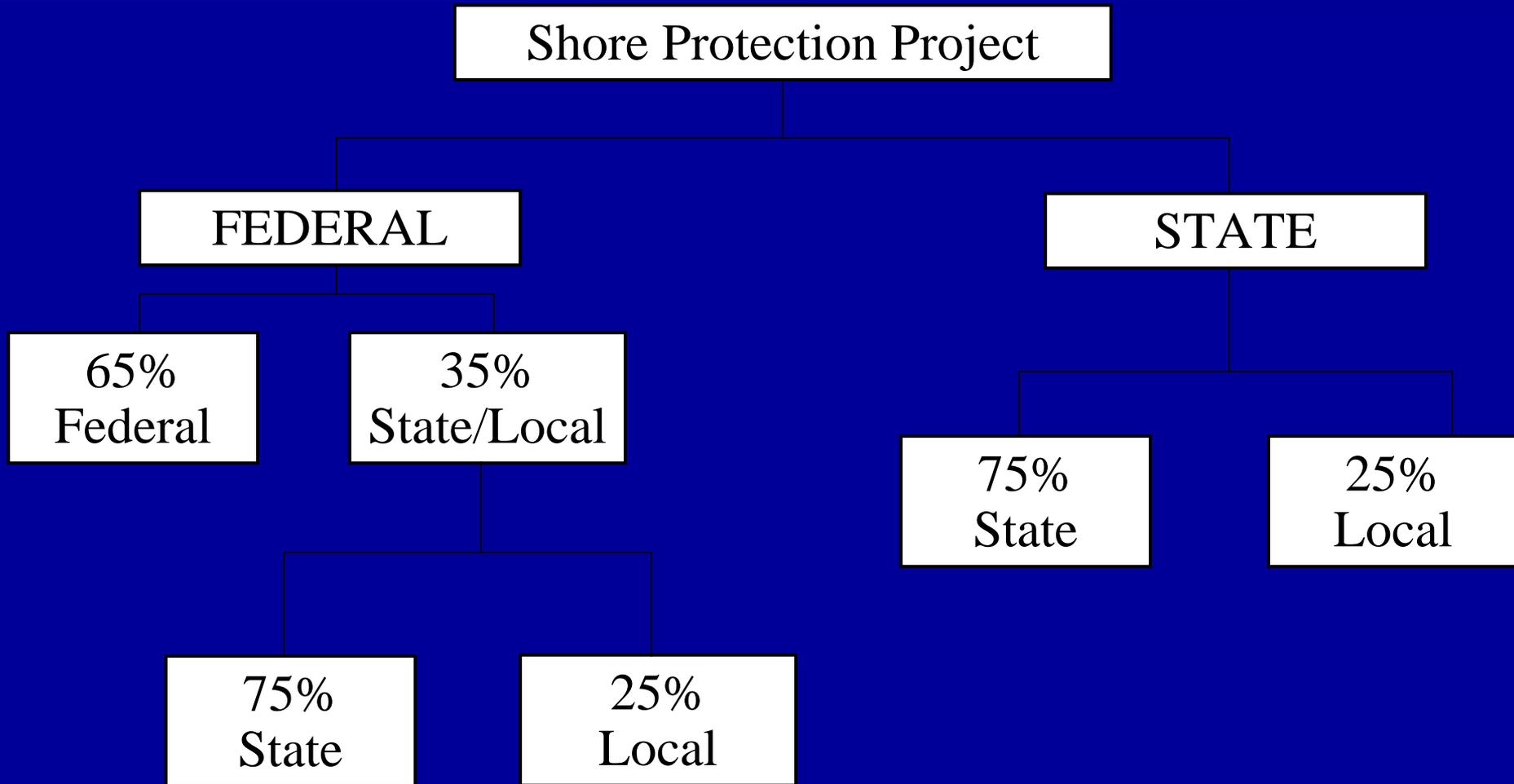
Professional and Technical Services -

- Stevens Institute of Technology
- Richard Stockton College of New Jersey
- Division of Fish and Wildlife
- New Jersey Geological Survey



Shore Protection Construction

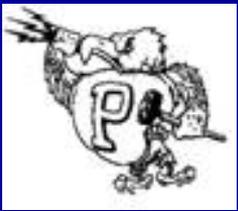
Cost Share Structure





ENLOW PLACE BULKHEAD – Phase II





ENLOW PLACE BULKHEAD - Phase II

2009 Project Specifications



- **Sheet Pile Bulkhead**
 - 600 Linear Feet
 - 25' PZ-22 Coal Tar Epoxy Coated Steel Sheeting
- **Stone Revetment**
 - 3' Top; 9' Toe
 - 6 – 9 Ton Cap Stone
 - Filter Fabric Underlayer and Core Bedding Stone
- **Public Access Walkways**
 - Dunn Lane – 5'
 - Ferry Road – 8'



ENLOW PLACE BULKHEAD - Phase II

Construction Equipment





Phase I

Constructed in 2003



Viewing South

Low Tide



Viewing North

Half Tide





Phase II

Viewing North

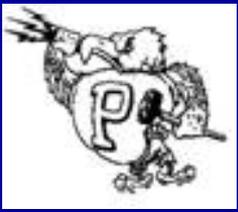


Top View



Bayside View





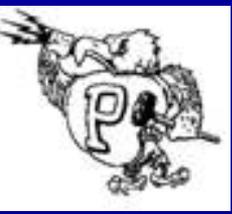
ENLOW PLACE BULKHEAD - Phase II

Proposed Project Costs



- **Contract Amount: \$1,398,500.00**
- **Cost Share:**
 - **75% State = \$1,048,875.00**
 - **25% Municipality = \$349,625.00**





ENLOW PLACE BULKHEAD - Phase II

2009 Project Facts



- **Bid Opening: April 15, 2009**
 - Award: Albert Marine Construction, Inc.
 - Amount: \$1,398,500.00
- **Estimate Construction Start: July 6, 2009**
- **Proposed Construction End Date: November 4, 2009**





ENLOW PLACE BULKHEAD - Phase II

Contractor Contact Information



- **Albert Marine Construction, Inc.**
 - 308 South Main Street
 - Forked River, NJ 08731
 - Phone: (609) 693-5524
 - Email: albertmarine1@aol.com
 - Owner – Bob Albert
 - Superintendent – Ted Faxon



New Jersey Department of Environmental Protection *Shore Protection Program*



www.nj.gov/dep/shoreprotection



New Jersey Dept. Environmental Protection
Bureau of Coastal Engineering

Shore Protection Program