

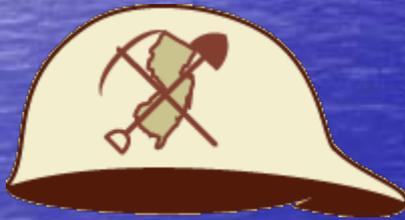


New Jersey Shore Protection

West Atlantic City, Egg Harbor Township



West Atlantic City Gabion Installation



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

**Township of Egg Harbor
Atlantic County, New Jersey
James J. McCullough, Mayor**



New Jersey's Shore Protection Program



State of New Jersey

Chris Christie, Governor

Kim Guadagno, Lt. Governor

Dept. of Environmental Protection

Bob Martin, 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

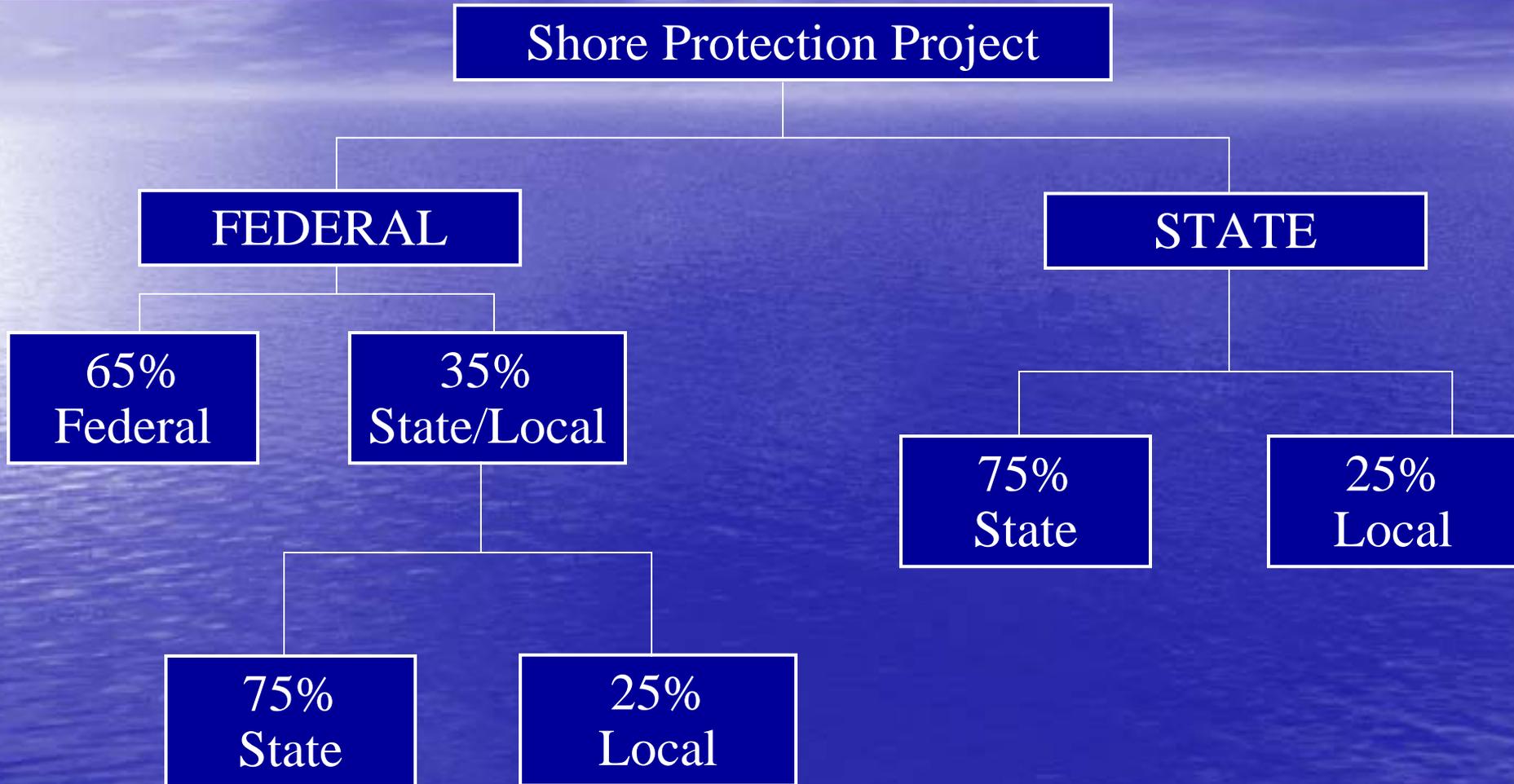
- Storm Damage Reduction/Shore Protection

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





West Atlantic City Gabion Installation

Egg Harbor Township, NJ



Bureau of Coastal Engineering
New Jersey Dept. of Environmental Protection
Office of Engineering & Construction



Problem Areas





Problem Areas





Existing Conditions





Existing Conditions





Gabion Construction





Project Specifics

- Cordova Avenue – Fox Place
- Contract Timeframe – 120 days
 - Estimated Bid – Late Summer/Early Fall
- Must minimize traffic obstructions
- Must maintain a clean and safe work site
- Must abide by all Federal, State, and Local regulations



Project Specifics

- **Rock Gabion Baskets**
 - 3,500 S.Y.
 - 1,000 C.Y. 6" DGA Base w/ Geotextile Underlayer
 - Stone size - 4 to 8 inches
 - Manta Ray Anchoring System
- **Sand Dune Cover**
 - 10,000 C.Y.
 - Revegetation (native dune plant species)
- **Mr. Boardwalk Roll-Out**
 - 459 Combine L.F.
 - Located Near Street-Ends



Required Permits



- **State**
 - CAFRA
 - Waterfront Development
 - Water Quality Certificate
- **Federal**
 - Individual Permit



Reimbursement Project



- **Project Cost Share Structure**
 - Municipal FEMA Mitigation Assistance
 - State Shore Protection Grant
 - State = \$200,000.00
 - Municipality = \$66,666.66
- **Town Responsible for Future Maintenance**
- **Executed State Aid Agreement Required**
- **DEP Easement Required for Reimbursement**

New Jersey Department of Environmental Protection *Shore Protection Program*



www.nj.gov/dep/shoreprotection