

Beach Prisms™



Shore-based installation is the most cost-effective method

Beach Prisms™ were developed in the 1980's to protect shorelines from erosion. They are a natural way to protect waterfront properties. The open design allows water to flow through the Prisms dissipating the wave energy, allowing the sand in the wave to accumulate while reducing the impact on the shoreline. This "soft approach" allows for natural movement of water, plant and animal life, as opposed to the more disruptive "hard approach" of stone breakwaters and seawalls.

Each Prism is made of high strength precast concrete and measures 3 or 4 ft tall by 10 ft long. Its triangular slotted design provides stability, durability, and withstands hurricanes (Hurricane Isabel, specifically). Permits for Beach Prisms™ installations are issued by state and federal agencies, such as the Department of Natural Resources and the Army Corps of Engineers. Since 1988, Beach Prisms™ have been installed at more than 20 sites on the Potomac River, the Chesapeake Bay and its tributaries.

Beach Prisms™, in some cases, have been proven to reclaim lost shoreline, by accumulating sand in front of and behind the Prisms. Results will vary based on many factors unique to each site, including tides, prevailing winds, fetch and availability of sand in the waves. Beach Prisms™ are designed for river and bay front properties.

After 18 years of product testing in the field and incorporating several cost saving design improvements for manufacturing, Beach Prisms™ are being reintroduced to the shoreline market. The Prisms have been redesigned to be produced as one piece instead of multiple pieces bolted together.

If you want to know more about Beach Prisms™, contact your local producer to receive descriptive literature, technical advice and schedule a site visit for evaluation.

Manufactured locally by:

SMITH-MIDLAND®
EXCELLENCE IN PRECAST CONCRETE

PO Box 300 · Midland, VA 22728
(540) 439-3266 · www.smithmidland.com

Beach Prisms™ program licenses are available worldwide through Easi-Set® Industries. A wholly owned subsidiary of Smith-Midland Corp. (DE), Easi-Set® Industries licenses the production of proprietary products to precasters in 23 states and 8 foreign countries, totaling 43 contracts. In addition to Beach Prisms™, Easi-Set® products include J-J Hooks®, SlenderWall® and Transportable Precast Buildings®.



Barge installation is used when shore-based installation isn't practical

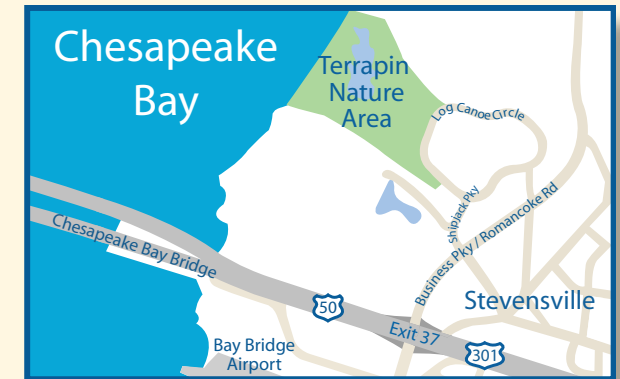
Dissipates wave energy,
while preserving a natural shoreline



Beach Prisms™ Installation
Bennett's Point, Queenstown, MD

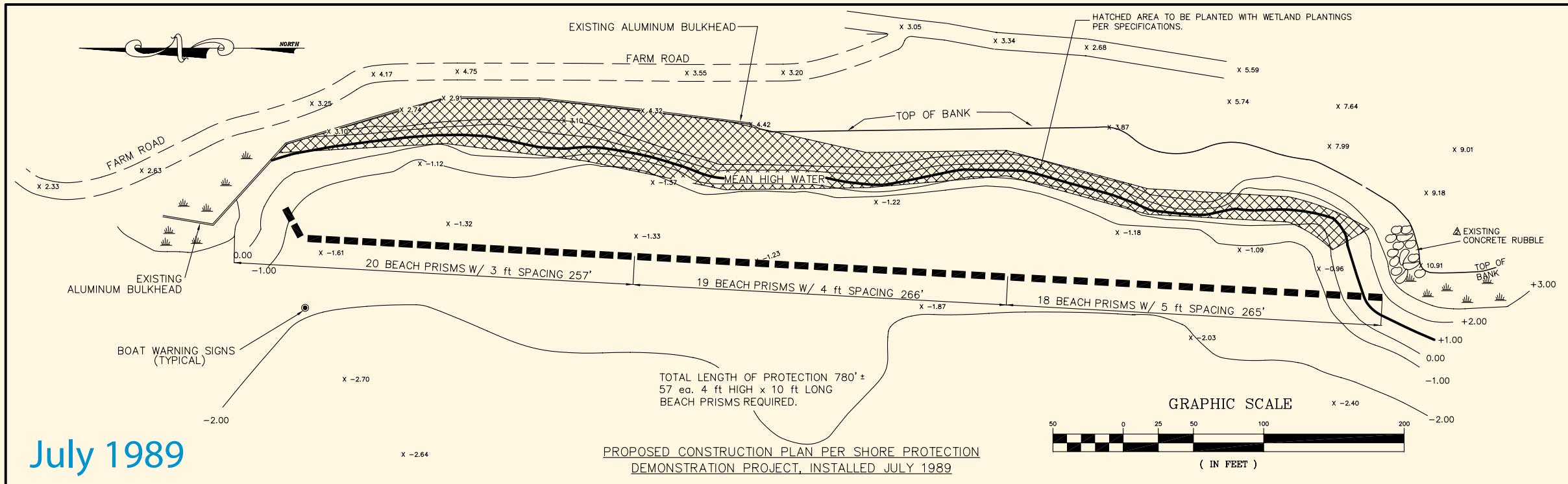
15 Years of Documented Beach Prisms™ Performance

Accretion Analysis Survey by Lane Engineering, 1989 to 2004, Terrapin Nature Area, 191 Log Canoe Circle, Stevensville, MD

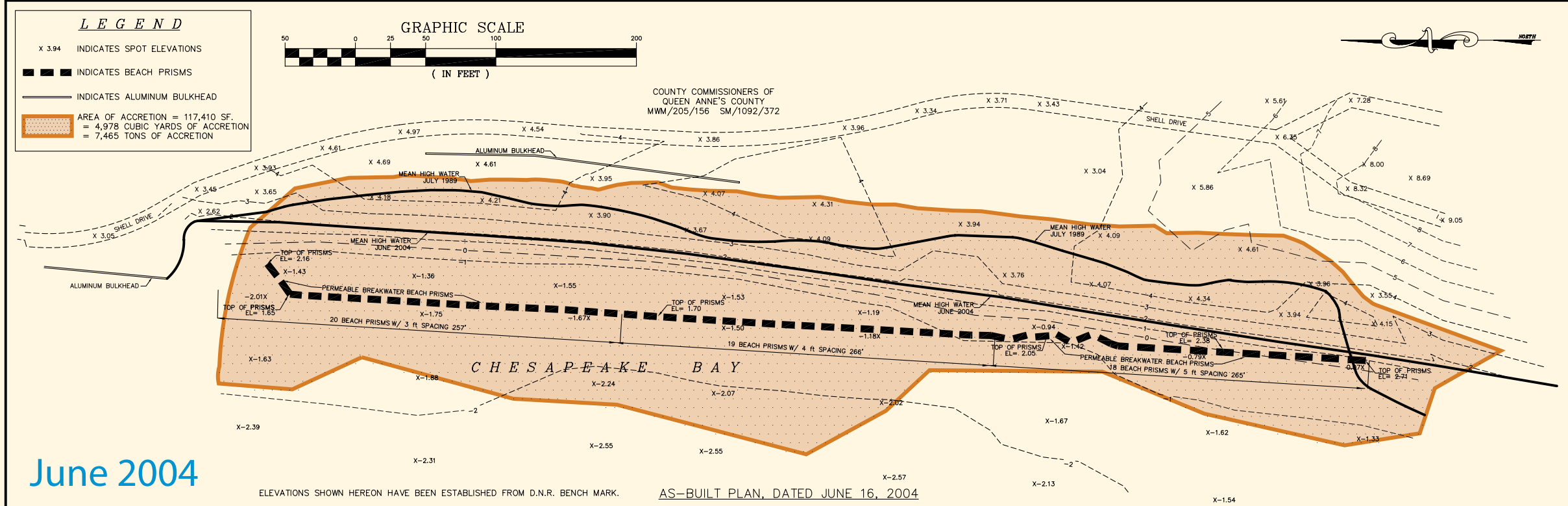


This survey documents:

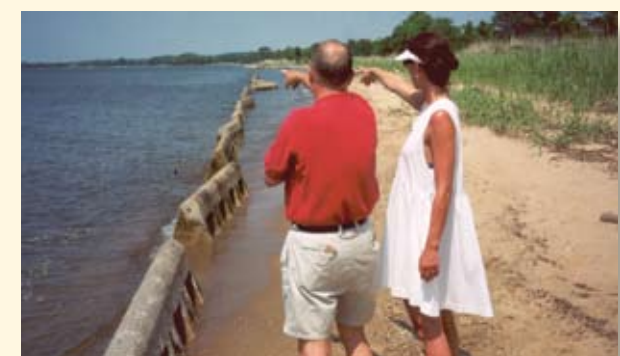
- Original shoreline condition in 1989 when Beach Prisms™ were placed and in 2004 (15 years later)
- Sand accumulation: **7,465 tons**, 117,410 square feet, 4,978 cubic yards
- Minimal movement of Prisms™ after sustaining Hurricane Isabel impact



4 ft tall by 10 ft long; weight 9,100 lbs; high strength precast concrete with epoxy-coated reinforcing steel



Terrapin Nature Area maintains 3 ft of sand accumulation, June 2004 (Installed July 1989)



Terrapin Nature Area after Hurricane Isabel Impact

		Lane Engineering, Inc. Civil Engineers – Land Planning – Land Surveyors E-mail: mail@leinc.com 117 Bay St. Easton, MD 21601 (410) 822-8003 FAX (410) 822-2024 15 Washington St. Cambridge, MD 21613 (410) 221-0818 FAX (410) 476-9942 114B West Water St. Centreville, MD 21617 (410) 758-2095 FAX (410) 758-4422		DATE 6/23/04 SCALE 1" = 50' JOB NO. 040469 DRAWN BY R.DEAN DWG. NAME 040469SEX2 APPROVED B.F.G.		BEACH PRISMS ACCRETION ANALYSIS TERRAPIN NATURE AREA IN THE FOURTH ELECTION DISTRICT QUEEN ANNE'S COUNTY, MARYLAND TAX MAP 48 GRID 22 PARCEL 111		SHEET No. 1 OF 1 FILE No. 4244													
<table border="1"> <thead> <tr> <th>No.</th> <th>BY</th> <th>REVISION</th> <th>APPROVED</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>R.DEAN</td> <td>ADDITIONAL SOUNDINGS</td> <td>B.F.G.</td> <td>10-28-04</td> </tr> <tr> <td>1</td> <td>R.DEAN</td> <td>REVISE PER RODNEY SMITH'S COMMENTS</td> <td>B.F.G.</td> <td>9-3-04</td> </tr> </tbody> </table>		No.	BY	REVISION	APPROVED	DATE	2	R.DEAN	ADDITIONAL SOUNDINGS	B.F.G.	10-28-04	1	R.DEAN	REVISE PER RODNEY SMITH'S COMMENTS	B.F.G.	9-3-04					
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