Living Shorelines and the Homeowner

Examples of Design Options

Scott Macomber, Angler Environmental

Considerations Regarding Design

- Homeowner goals
  - Shoreline protection, appearance, cost, water access
- Landscape considerations
  - Site assessment, physical constraints
- Plant selection and optimizing success
  - Selection of appropriate species, long term maintenance
- Implementation of design
  - Constructability

Options for Living Shorelines

- Marsh creation
- Rock groins with marsh plantings
- Biolog based designs
- Rock sill with marsh plantings

Marsh Creation

VIMS Center for Coastal Resources Management

Marsh Creation

VIMS Center for Coastal Resources Management

Marsh Creation

NOAA Restoration Center

Marsh Creation

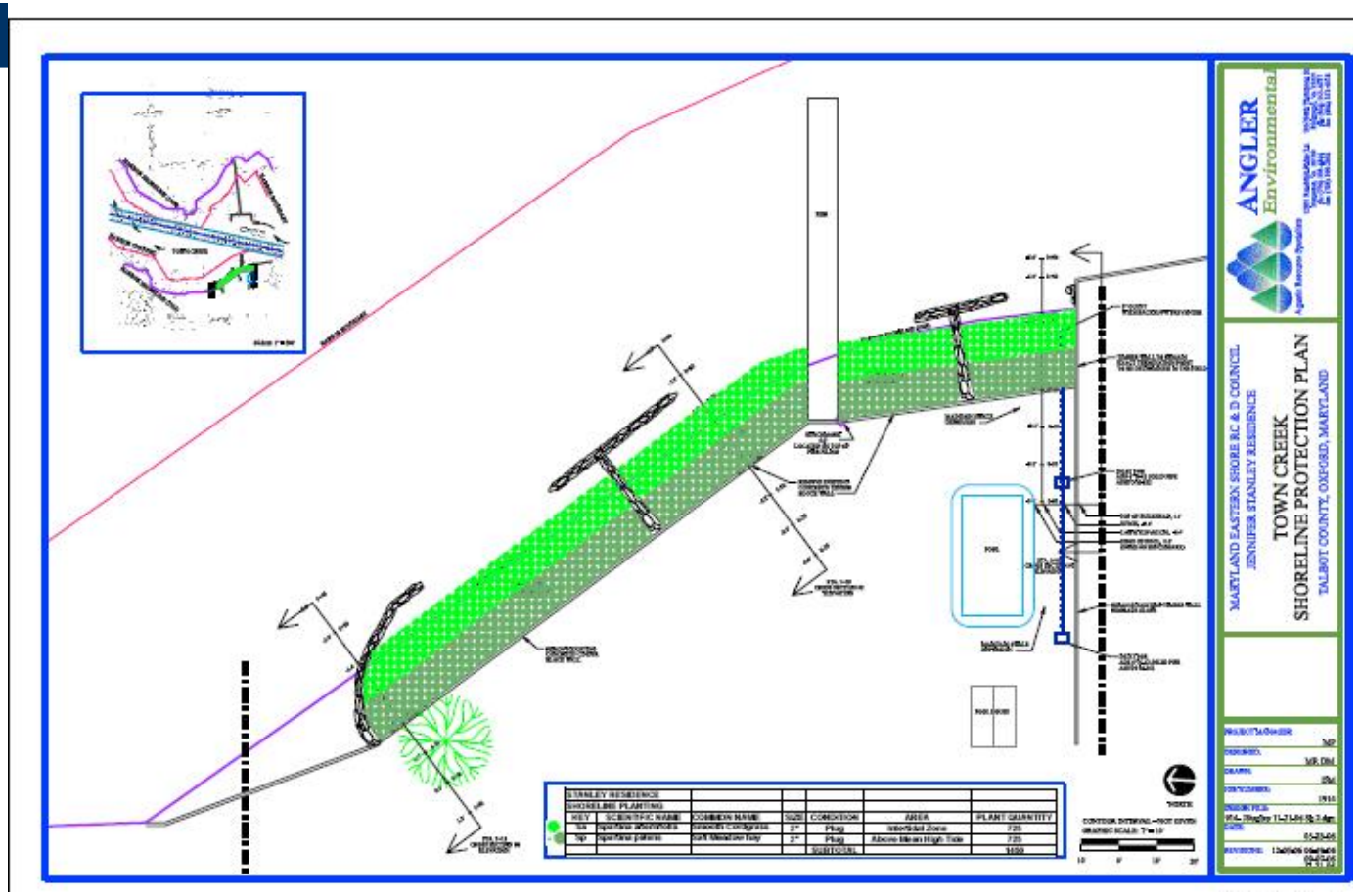
Benefits of Marshes in Erosion Control

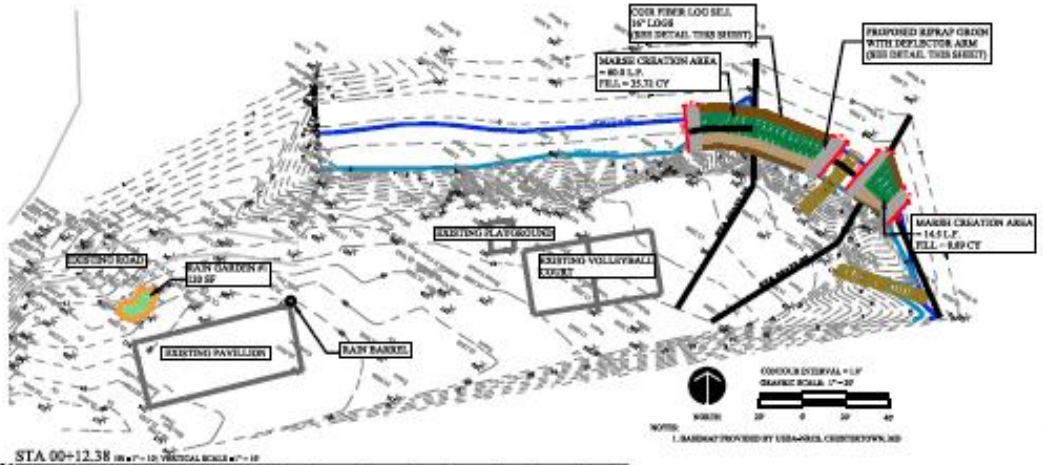
- Inexpensive
- Effective - ~50% of wave energy absorbed in first 8 feet of marsh
- Increase needed habitat in estuaries
- Improvement of water quality

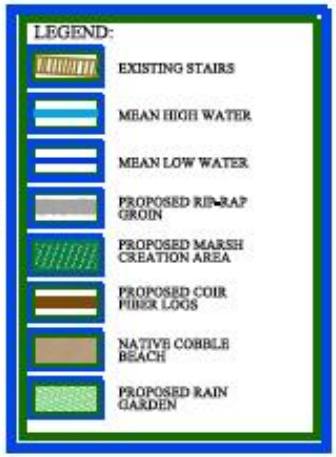
Groins with Marsh Plantings

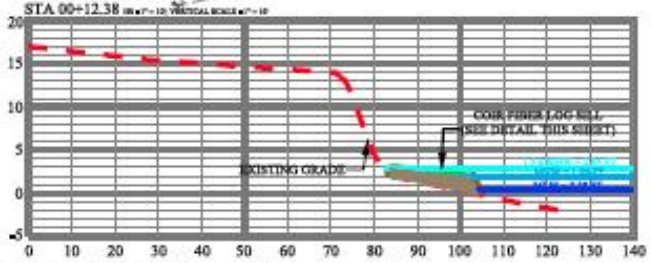
Groins with Marsh Plantings

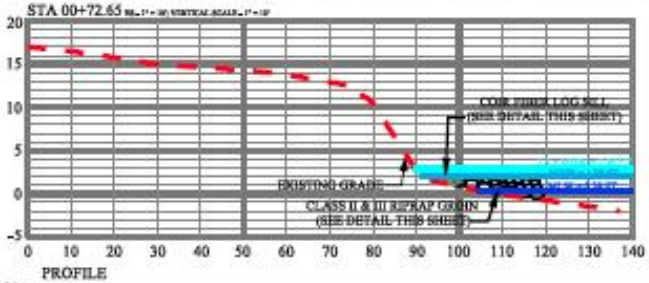
Groins with Marsh Plantings

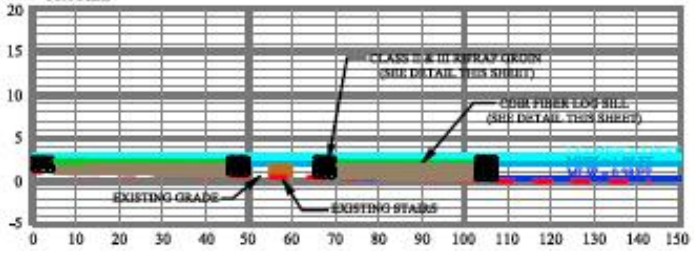


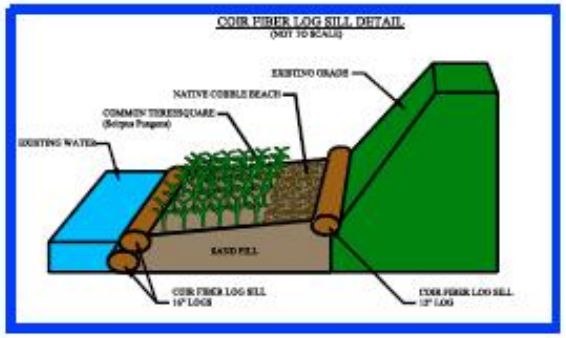


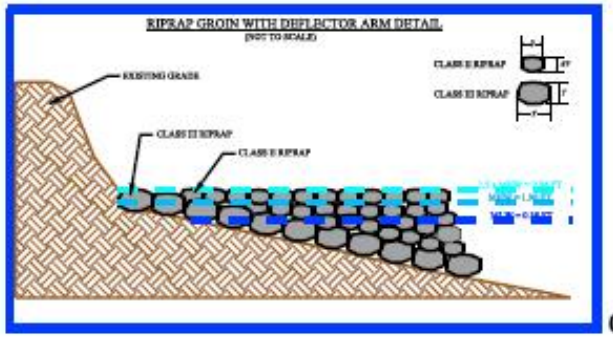












PROJECT MANAGER:
DESIGNED:
DRAWN:
JOB NUMBER:
DESIGN FILE:
DATE:

DRAFT

APPLICANT: MARYLAND EASTERN SHORE RC&D COUNCIL

PROJECT: TURNERS CREEK SHORELINE STABILIZATION

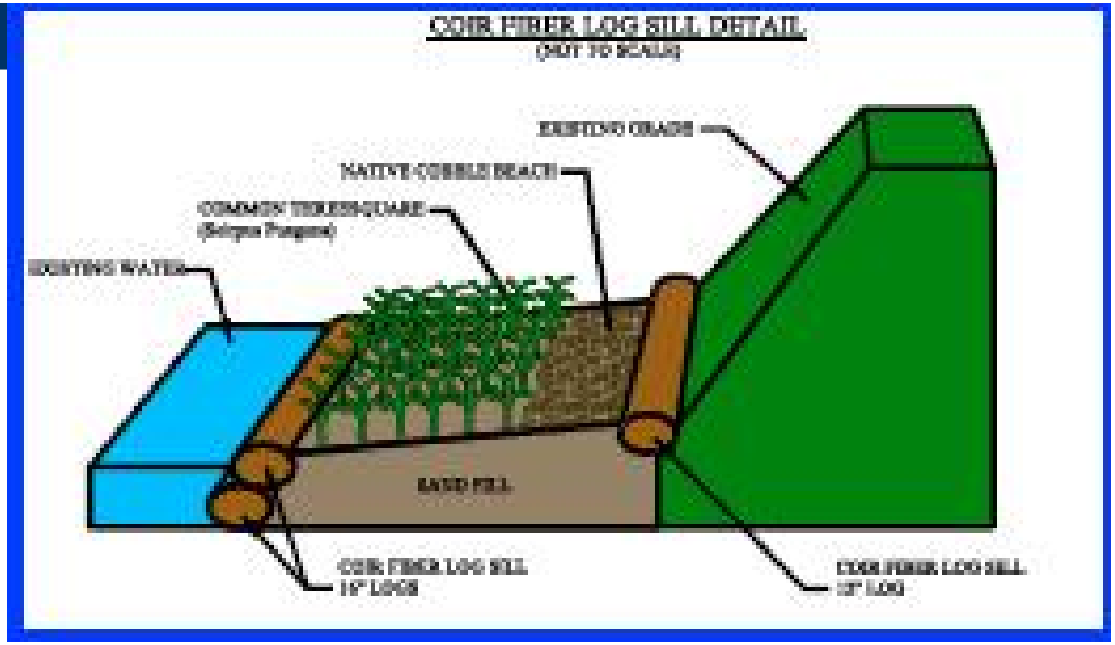
SHORELINE STABILIZATION PLAN

KENT COUNTY, MARYLAND

ANGLER ENVIRONMENTAL

CNST DETAIL FIG 1

Biolog Based Designs



Biolog Based Designs

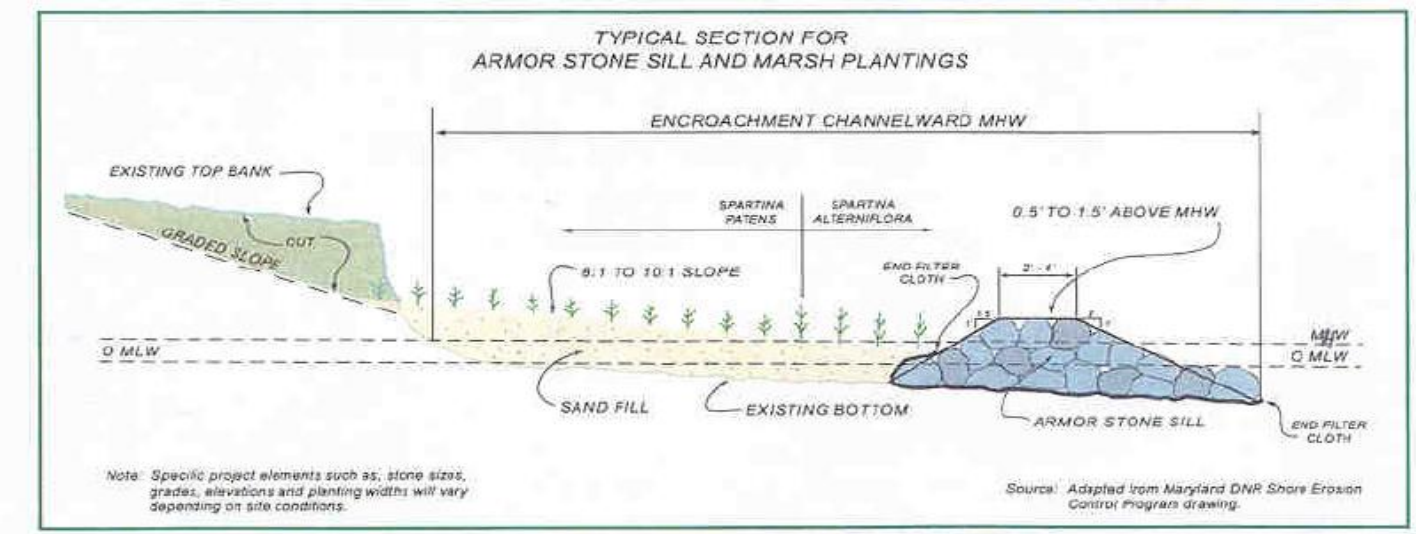
NOAA Restoration Center

Biolog Based Designs

VIMS Center for Coastal Resources Management

Biologs Integrated into Designs

Sill Design



S. alterniflora is planted from mean low water to mean high water

S. patens is planted above mean high water

Sills with Marsh Plantings

Gwen Shaughnessy - DNR

Sills with Marsh Plantings

D. Burke and Associates

Major Factors in Selecting Design

- Energy absorbed by shoreline
  - Fetch – distance wind travels over surface of water
  - Fetch directly correlates to wave size
- Depth of water
- Existing shoreline
- Cost