



®

DELAWARE  
BOTANIC  
GARDENS  
AT PEPPER CREEK

# Living Shoreline Innovation at Delaware Botanic Gardens

Brian Trader, Ph.D.







# Mission

To create a world-class, inspirational, educational, and sustainable public botanic garden in southern Delaware for the benefit and enjoyment of all.





# Vision and Values

Our *vision* is for beautiful, engaging, gardens that inspire and educate.

Our *values* encompass inspirational gardens, environmental stewardship, community focus, education and research, organizational transparency, financial responsibility, and civility and respect.





# The Living Shoreline Project



Karen Steenhoudt



# Goals of the Project

- Improve water quality and natural habitat
- Restore and stabilize 300+ linear feet of shoreline using natural materials
- Serve as demonstration site for stabilization techniques
- Eradicate invasive plant species and preserve native flora and fauna

# Project area

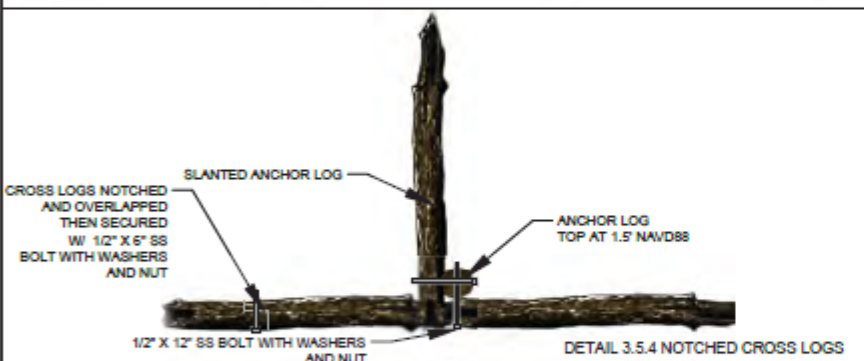
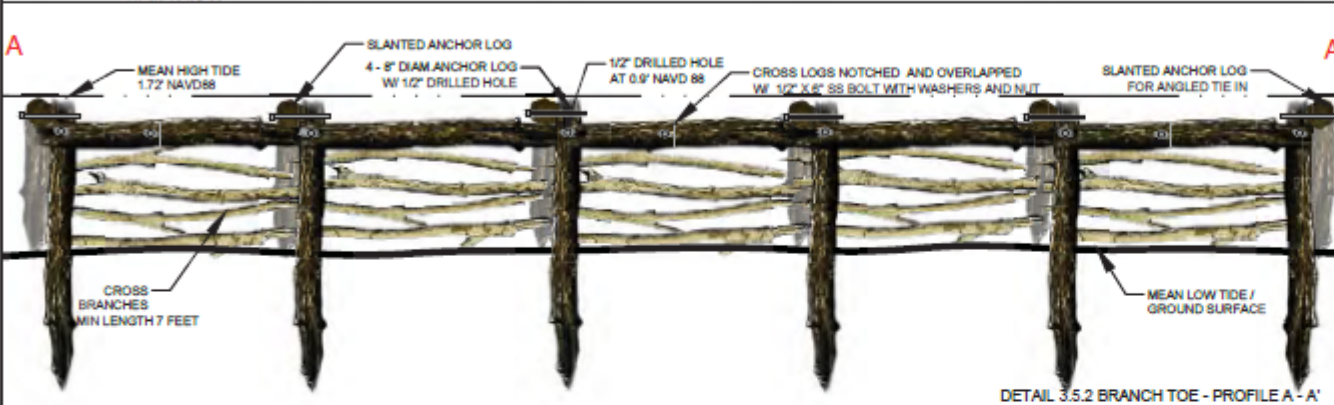
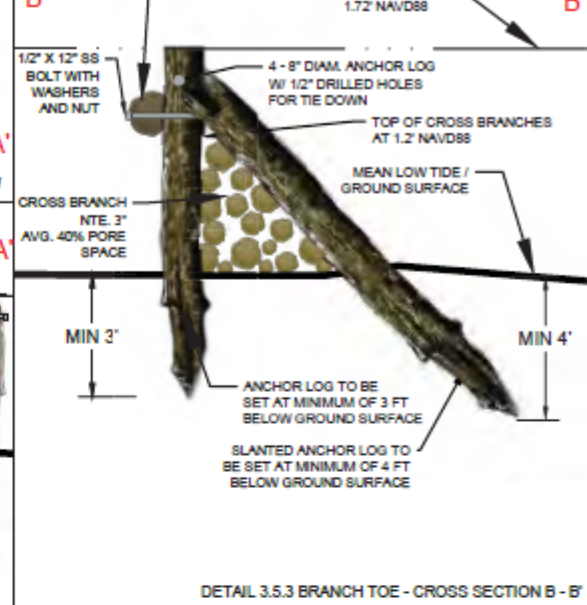




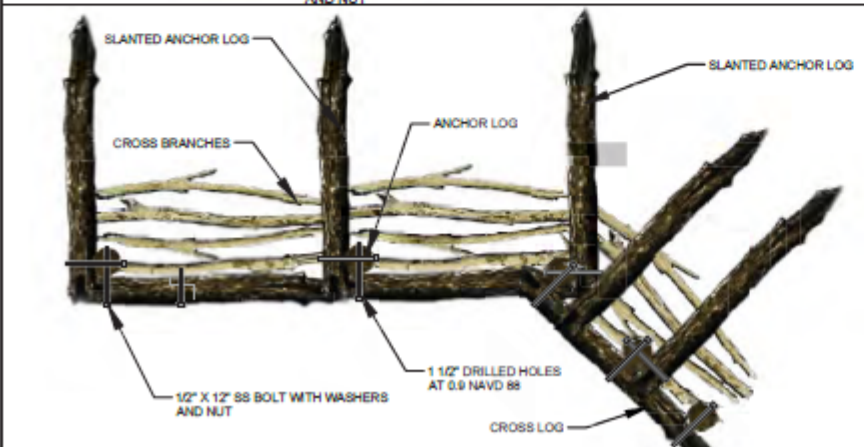
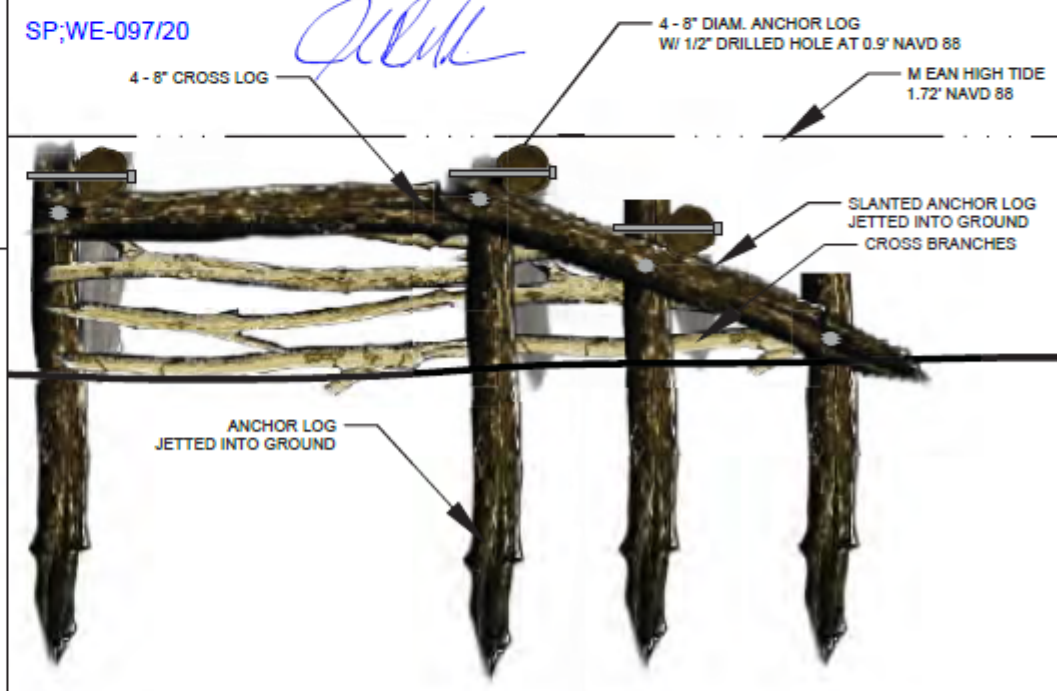
# Project components

- Anchored Branch Toe
- Birds Nest Revetment
- Shoreline fill
- Root Wad Implements
- Native plantings
- Observation platform





**APPROVED**  
 By W.S.L.S. at 1:01 pm, Jul 01, 2020





























# The plantings

- High Marsh
  - *Distichlis spicata*
  - *Juncus roemerianus*
  - *Spartina patens*
- Low Marsh
  - *Juncus gerardii*
  - *Scirpus robustus*
  - *Spartina alternifolia*
- Pollinator grove
  - *Clethra alnifolia*
  - *Ilex verticillata*
  - *Kosteletzkya virginica*





















































Photos by Ray Bojarski and Brian Trader