

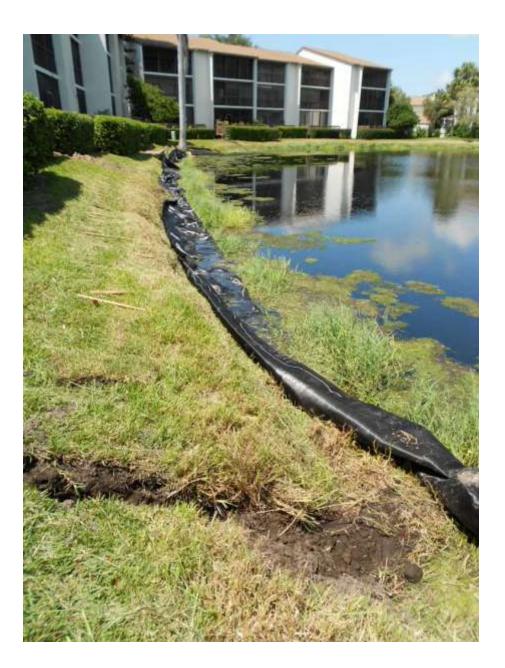
Bank Stabilization Project Using Geo-Tubes



Invasive and Diseased Trees Removed.







Out goes the First Tube



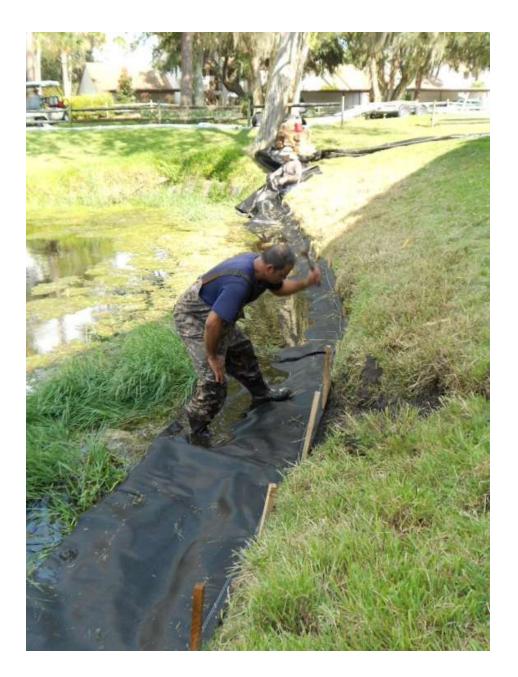
Stakes are laid out





Down Spouts Extended Out and Under the First Tube





Stakes Installed to Attach the Tube to the Bank for Filling



Let the Filling Begin !! Sediment from the Bottom of the Pond is Pumped into the Tube



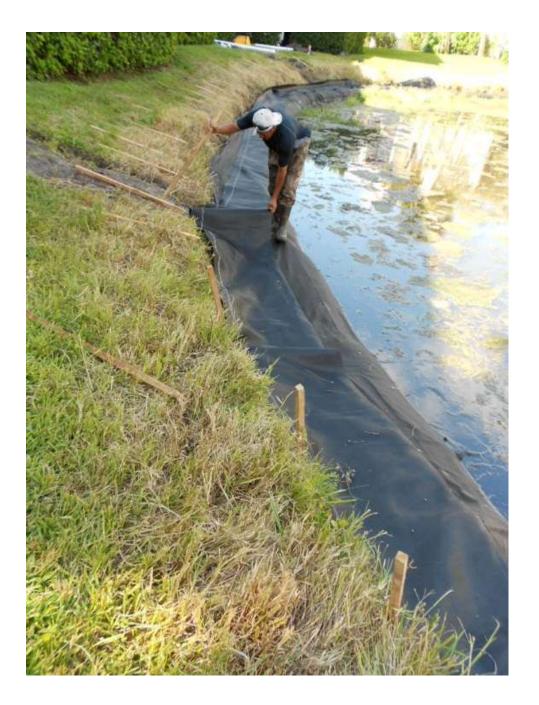


The Tube Begins to Take Shape





First Tube Fat and Sassy



Second Tube is Rolled Out



Three Tubes Bulging With Joy (Note How Firm the Tubes Are)



The Cutting of the Sacrificial Tube



Using the Soil in the Sacrificial Tube, The Soil is Spread to Create a More Natural Slope



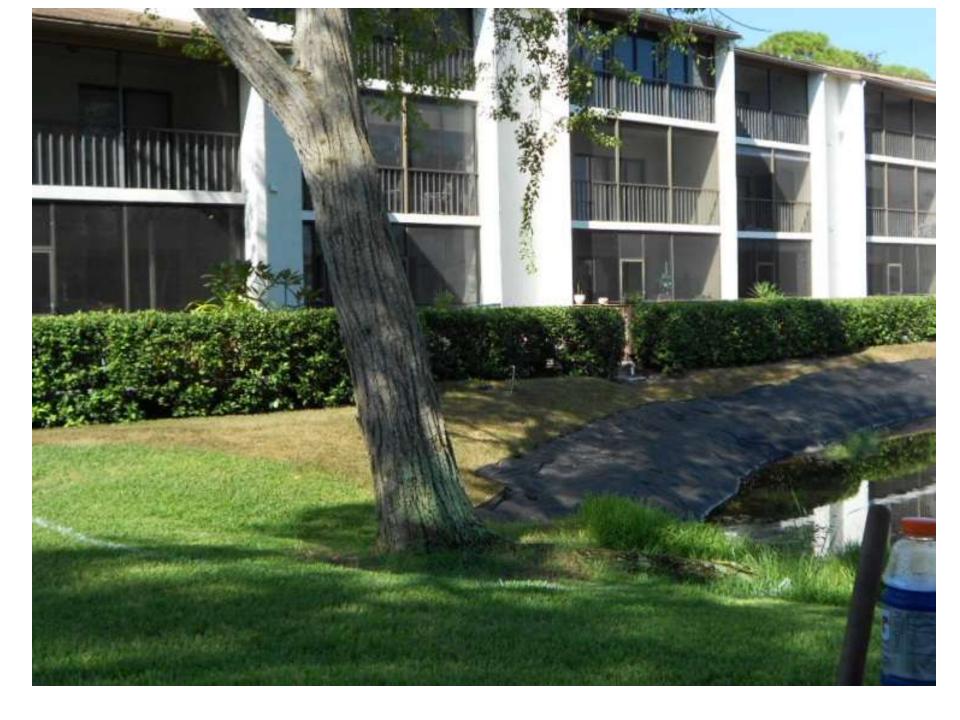
Spreading of the Soil Complete



Covering of the Bank



Geo-Tube Installed





Lessons Learned First Hard Rain – 3.5"







Uncovering the Damage





Repairing the damage Shoveling soil from pond to bank and wheel barrowing in soil.





Removing existing sod around Pond



Smoothing the Transition between the existing land and the Geo-tubed area.





Re-installing the covering on the Geo-tubing and installing weed matting up to shrub line to limit erosion.







Filling in eroded areas between units, installing weed matting to limit erosion from Gutter overshoot in down pours.



Protected and Ready for Plants





Plants Arrive!!!







First Row Goes In





And the Next and The Next And...







More...





And Trees And Ferns

Note our new Friend above!



Note: Septic Stone was added to area between units to disperse the force of the water falling 30 feet downward when rain is heavy.





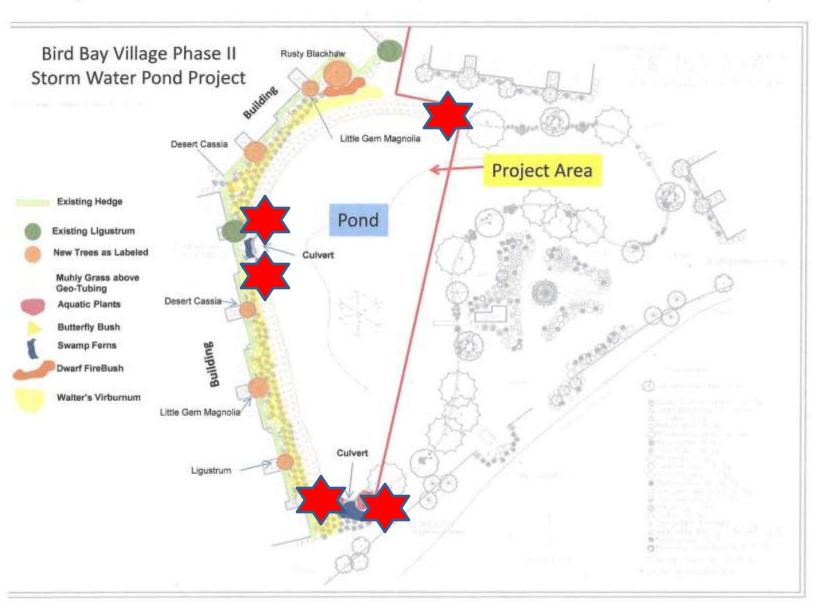


Swamp Ferns, Walter's Viburnum, and Lots of Muhly Grass.





Aquatic Plants to be installed in the Spring



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