Town of Castile Road Ditch Stabilization Project Luther Grove Road - Silver Lake

Funded through an Erosion & Sediment Control Water Quality Mini-Grant to the Wyoming County Soil & Water Conservation District and the Wyoming County FL/LOWPA Program.

Project overview:

- Improve general drainage conditions along Luther Grove Road to:
- Reduce localized flooding issues within this section of the Silver Lake Watershed,
- Reduce road ditch erosion,
- Reduce sediment inputs into Silver Lake,
- Demonstrate the use of manufactured erosion control products with traditional methods.

Original Site Conditions

December 2005





The outlet channel on the Serventi Property was over grown with several fallen trees blocking channel flow.



Original Site Conditions Spring 2006

Plugged 24" CMP Culvert Pipe at Outlet end of Ditch.



New outlet channel as staked out.



Sediment deposits impede channel flows and cause localized flooding.



Road ditch in before conditions



Existing side drainage from golf course

Repaired with Geotextile **Fabric and Gabion Rock.**



Channel Stabilization Methods

Rock lined channel at corner of Silver Grove & Luther Grove Roads to reduce ditch erosion -Before & After.



Town of Castile Highway Dept. & Soil & Water Conservation District Personnel installing Land Lok 450 Permanent Reinforcement turf along center of road ditch.

Channel Stabilization Methods



Channel Stabilization Methods

Reinforcement turf with rock and coir log check dams.



Coconut Fiber Coir Logs Installed as Permanent Check Dams

Town of Castile Highway Dept. & Soil & Water Conservation District Personnel installing Land Lok CS2 coconut/straw erosion control blankets along center of road ditch.

Channel Stabilization Methods





Completed channel stabilization at Luther Grove Road.



Channel Stabilization Methods

Hydroseeding completed by the Wyoming County Highway Dept.





New 30" plastic culvert pipe with outlet protection.

Accomplishments

- 125 feet of improved outlet channel,
- 40 ft. of new 30" plastic culvert pipe,
- 240 ft. of straw erosion control blankets,
- 415 ft. permanent reinforcement turf
- 230 ft. of rock-lined channel,
- 0.5 acres of critical area seeding,
- 9 coconut fiber coir log check dams,
- Improved drainage outlet from golf course.