



Reserve at Spring Pointe Apartment Complex Muhlenberg Township, PA



SITUATION

Metropolitan Management Group selected a 19-acre tract of land to develop a 160 luxury apartment complex. The tract was the base of a steep mountainous terrain and immediately upstream of a watercourse. The watercourse has PA DEP Protected Use for Migratory Fishes (MF) and for Warm Water Fish (WWF). Extra care had to be taken to minimize accelerated erosion and the resulting sedimentation during the phased construction of the various structures.

SOLUTION

The final plan called for 2:1 slopes at the base of the mountain. East Coast ECSC-2 Double Net Straw/Coconut erosion control blankets were installed on the slopes to promote the establishment of vegetation.

Run-on from the steep slope above the project has to be captured and safely conveyed around the project. Two large swales were designed to capture the run-on as it entered the project site and then safely convey the run-on to a detention facility for passive treatment. The 12' wide swale that received the mountain run-on was lined with East Coast Erosion Control High Performance Turf Reinforcement Mat. The 12' wide swale that received the mountain run-on was lined with East Coast Erosion Control High Performance Turf Reinforcement Mat.

The second steeply-sloped swale was lined with East Coast Erosion Blankets ECC-2 Double Net Coconut erosion control blankets. ECC-2 has a permissible shear stress of 3.3 psf and a permissible velocity of 10.0 fps in an unvegetated condition.

RESULT

Vegetation quickly established and turned the slopes into a lush green carpet within weeks from germination.

Vegetation was observed within two weeks as it grew through the single monofilament mat. Both swales were quickly covered with vegetation that aided in the management of storm water flows through the project. Neither swale, or the steep slopes protected with the East Coast Erosion Blankets' products experienced any erosion problems.

PRODUCT PROFILES

- ECSC-2
- ECC-2
- T-RECS

PRODUCT FEATURES

Extended Term
Permanent
Variable Slope
Photodegradable
UV Stabilized
Turf Reinforcement

