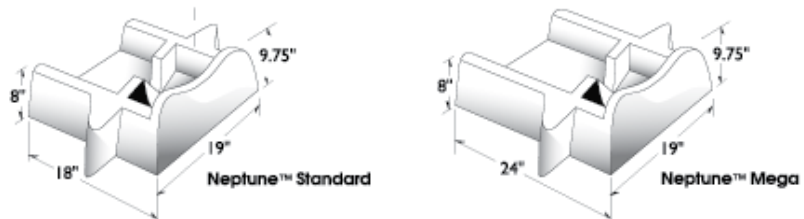
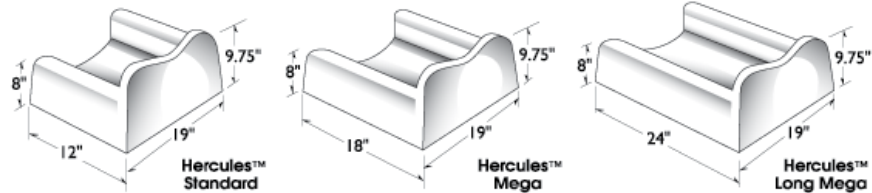


REINFORCED SOIL SLOPES (RSS) WITH HARD ARMOR FACING

HERCULES AND NEPTUNE MODULES

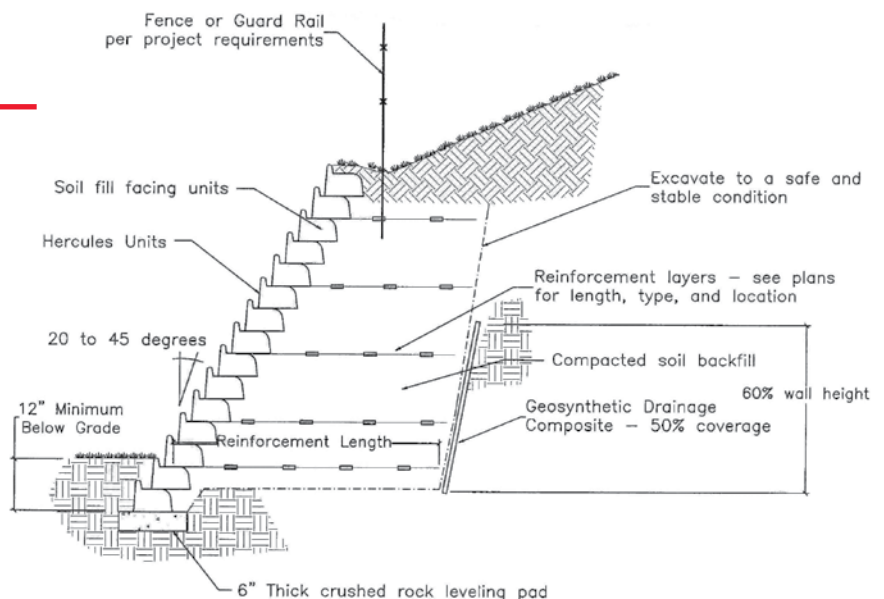
For slope angles 70 degrees to 45 degrees Hercules and Neptune Modules are utilized with geosynthetic reinforcement. The high strength concrete units yield a facial coverage of 1.5 sq feet and hold a large volume of soil in their trough which allows the completed slope to be vegetated, regardless of backfill composition.

BENEFITS: *Hercules and Neptune Modules when used as a hard armor facing provide the durability of concrete for long-term erosion protection, a fast and positive aid to setting slope angle and a compaction form to easily achieve proper compaction out to the ends of the reinforcement. Hercules and Neptune Modules are an interchangeable, plantable slope system that is available in 5 different sizes:*



Slopes

Slopes are constructed quickly by placing each course and backfilling with select materials. Reinforcement is placed between courses as specified, then fill is placed and compacted. When the slope is complete, units can be individually planted or the entire slope face can be hydro-seeded. As plants mature the Hercules and Neptune Modules will be covered while still providing a hard armor facing.



REINFORCED SOIL SLOPES (RSS) WITH HARD ARMOR FACING

Chesterfield City Government Center, Missouri

The City of Chesterfield, Missouri utilized a Reinforced Soil Slope when they were building their new city government center. The site would have required a very tall poured in place concrete wall or modular block wall. **The adjacent property owner was not willing to grant an easement if they were going to be facing a large intrusive concrete wall.** A reinforced soil slope at 50 degrees was chosen to replace the wall option, due to its cost savings and aesthetic value. The slope was constructed with soil filled Hercules Mega Modules, select granular backfill and Mirafi reinforcements. The completed slope has a maximum height of 53 feet, is ¼ mile long and is now covered with hardy native vegetation providing a natural look with the stability of a hard armor faced structure.



BENEFITS OF RSS: *The completed slope is now covered with hardy native vegetation providing a natural look with the stability of a hard armor faced structure.*

Battlefield Road, Greene County Missouri

Hercules modules were utilized by The Greene County Highway Department to create several 50 degree roadway slopes for the Battlefield Road Improvement Project. Each RSS utilized site soil as backfill, Mirafi reinforcement and Hercules Mega Modules as a hard armor facing. The completed Reinforced Soil Slopes were dusted with topsoil and spray seeded with native plant materials.



BENEFITS OF RSS: *The vegetation now requires no maintenance and serves to minimize the impact of these large cost effective structures.*

REINFORCED SOIL SLOPES (RSS) WITH HARD ARMOR FACING

AWARD WINNING PROJECT - Manchester Rd. and Route 141 Interchange, Missouri

Hercules Mega Modules were selected for slope facing on this High Finish Urban Interchange. *The Missouri Department of Transportation and the City of Manchester collaborated on this award winning project.* Both the upper and lower slopes were constructed at 70 degrees with a planting terrace between for aesthetic benefit. Internally, the reinforced zone was constructed using Mirafi reinforcements with select granular material extending from the rear of the modules to the ends of the grids. Each Hercules Module was filled with soil and planted with a hardy variety of Sedum from cell packs. All of the slopes on the project are now well grown in and require little maintenance making this an excellent example of Green building.



BENEFITS OF RSS:

Slopes on the project are now well grown in and require little maintenance making this an excellent example of Green building.

