GREEN TERRAMESH® STRUCTURE
Product: Green Terramesh®, bidim® geotextile, Grasstrike, Megaflo®

Problem
At the back of the shops on the main road in Highbury there is a large car park that has no access back to the main street. The Highbury service lane provides a much needed connection for the car park, it also gives better access to the back of the shops. Given that there was a large height difference between the car park and the road it needed to connect a Green Terramesh® Structure (GTM) was considered due to a small footprint and ease of construction.

Solution
GTM® units are prefabricated from a single panel of wire mesh with an additional welded steel mesh at the facing and triangular supporting bracket. Opening and pivoting of the triangular supporting brackets create a 70 degree face angle. They can be used individually up to a height of 3.0m or with geogrid reinforcement inserted between the units where external loads exist or for slopes greater than 3.0m. The front face is normally soil filled and planted to achieve a vegetated solution.

Upon the start of construction it was found the site had been used as a dumping ground and approx. 1000m³ of unsuitable materials needed to be removed and replaced with TriAx 160 and gap 65 to form a stable base for the structure. Construction was carried out by three workers consisting of a truck driver for backfill material, a digger and a compactor. GTM® can easily be installed with a two man team. GTM® can either have a vegetated face or a rock face, in this case the structure chosen was a vegetated face. With a facing fill vegetated face - a 300mm to 500mm zone of topsoil is placed up against the Biomac Grasstrike to provide a growing medium for the selected vegetation structure. This was completed within the project schedule in late 2010.

The GTM® structure was completed within the project schedule in late 2010 despite bad weather during the construction period.
Vegetated Green Terramesh structure