Case Study
Cellweb® TRP
Castle Gardens, Leicester

Location:
Castle Gardens
The Newarke
Leicester
LE2 7BY

Project Description:
Access route into Castle Gardens for pedestrian use within a tree root area.

Technical Requirements:
• Building pathway up 2.19m without causing ground compaction and damaging the tree roots
• Vegetated slope
• Natural appearance

Client:
Leicester City Council

Contractor:
Leicester City Highways

Consultant:
Tim Sloan - Levitate
Pravin Godhania - Highways

Leicester City Council identified the need for a new entrance and footpath through Castle Gardens on the outskirts of the city centre. The challenges were a change in levels of 2.19m and presence of mature tree RPA's along the route dictating that a no dig solution was required for the footpath construction.

The council engaged Geosynthetics Limited and Levitate Architecture and Design Studio Limited to design a no dig 3D cellular confinement system. The solution minimised compaction of soils, reduced overall footprint and eliminated root severance, whilst providing continued water permeation and gaseous diffusion to the rooting environment beneath.

“From their technical advice during the design stage, through to the on-site support during installation, Geosynthetics have assisted with the project’s successful creation of an attractive new path through tree rooting areas.”

Pravin Godhania, Leicester City Council