

Solstice Condo Guelph, Ontario

Challenge

Poor soils generally consisting of topsoil underlain by several metres of loose silt to sandy silt, organic clay (in some locations) and loose to dense silt. The poor soils extended to as deep as 7 to 9m and bedrock was not encountered. Additionally, the water table was mostly high and the six-storey condominium was to be founded at the level of these poor soils, which put the structure's footings at risk of high settlements.

Solution

The Geopier Impact® system proved to be an effective solution to support the structure's footings. Impact elements successfully stiffened and strengthened the soils to be able to support higher bearing capacity footings.

Outcome

Implementing the Impact® system prevented the need to dig replace poor soils or use costly deep foundations, resulting in significant project savings.



This striking 6 storey student residence condominium was completed in 2014

Project Team

Owner/GC

Melloul Blamey Construction

Structural Engineer

Tacoma Engineers

Geotechnical Engineer

CVD Engineering

Ground Improvement - Rigid Inclusions - Piling Systems - Slope Stability - Ground Reinforcement

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