

# *New Mausoleum Supported by Chance® Helical Pulldown Micropiles®*



## *Mount Pleasant Cemetery Mausoleum - Toronto, Ontario*

The cemetery owners had plans for a new mausoleum to be built. It was desired to have a structure that did not have a large footprint as they wanted to ensure the project efficiently utilized land in the urban location. Thus the structure was built close to the property lines adjacent to an existing residential area. The surface soils in the area were not suitable for bearing the foundations thus a deep foundation solution was required. Chance® Helical Piers were chosen for the foundation for several reasons including: no vibration during installation and no spoils had to be extracted from the site.

## PRODUCTS USED:

- (156) AB Chance Helical Pier material with 6" diameter grout column (Helical Pulldown Micropile®)

## ADVANTAGES:

- No vibration when installing - no disturbance to close residential area
- No spoils - reduce construction traffic into existing cemetery
- High loads -using the Chance® Helical Pulldown Micropile, increased load capacity was achieved over using a standard helical pile

## CONTRACTOR:

- EBS Engineering and Construction Limited

## DESCRIPTION:

EBS Engineering and Construction Limited worked with Brown and Co. Engineering Ltd. of Toronto and soil consultants Golder Associates of Toronto to provide a foundation solution using the Chance® Helical Pier system. Construction noise and vibrations were the biggest concern for the owners and designers during planning. The Chance® product was chosen over conventional technologies (driven pile and caissons) because helical piles could be installed with no vibration and no spoils thus reducing construction traffic and eliminating any vibration. Several load tests were successfully completed on the Helical Pulldown Micropile, verifying the piers could support the 550kN working loads on the piers. The piers were installed to approximately 10 to 12 meters deep.

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*For more details on  
this product please  
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