



Bus Maintenance and Storage Facility

Hamilton, Ontario, Canada

After discovering differing ground conditions, Keller provides an alternative design for the new bus facility.



The project

The City of Hamilton constructed a new bus maintenance and storage facility to increase the transit division's capacity for its growing fleet. The facility will include a garage, maintenance bays, a parking garage, and a two-story office area. Ground conditions across the 41-acre site comprised poor-bearing soils, including a continuous peat layer with high compressibility.

Initial geotechnical reports recommended using rigid inclusions for ground improvement; however, through further investigation, Keller found discrepancies in the thickness and compressibility of the peat layer.

Keller proposed an alternative design that:

- Retained the 4800 rigid inclusions across the site
- Required the addition of 260 CFA (auger cast) piles and drilled shafts to support the parking garage and office building.

Keller fast-tracked the installation to meet the client's schedule and allow for the next phase of construction.

Project facts

Owner(s)

City of Hamilton

Keller business unit(s)

Keller

Main contractor(s)

Pomerleau, Inc.

Engineer(s)

Keller

Solutions

Deep foundations
Ground improvement

Markets

Commercial

Techniques

Rigid inclusions
CFA (auger cast) / ACIP piles
Drilled shafts

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