



Ford Motor Company of Canada

Oakville, Ontario

These three very large tanks are supported by Geopier® elements resulting in considerable cost savings when compared to dig/replace

Project Team

General Contractor

The State Group

Owner

Ford Motor Company of Canada

Geotechnical Engineer

Peto MacCallum

Structural Engineer

IBI Group

The Ground Improvement People™

Challenge

Construction of three new 360,000-gallon tanks on a large mat foundation for a batch reactor treatment plant for industrial wastewater was planned at Ford's main production facility. The plant was situated directly adjacent to their existing paint facility. Subsoil conditions consisted of 0-3m of loose granular fill, and 3-4m firm, becoming stiff clay till, with groundwater at 2m. The soil conditions, heavy loads, groundwater and close proximity to the existing operating facility made dig and replace very difficult and costly.

Solution

Geopier Rammed Aggregate Pier® elements were selected to be installed as close as one (1) metre from the existing facility to support the heavily loaded raft foundation.

Outcome

Unforeseen obstructions were handled with ease by being able to adjust the position of Rammed Aggregate Pier® elements. Continuous plant traffic in close proximity to the work area resulted in a relatively tight work space to complete the work – the installation of the Rammed Aggregate Pier elements did not disrupt plant traffic and proved to be a cost effective and practical alternative to dig-replace.

Contact The Ground Improvement People®

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Email us at solutions@geosolv.ca

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