



G3 INLAND GRAIN TERMINAL - MAIDSTONE SK

Design and Building of CFA Foundation Piles

CANADA



Owner

Richardson International Ltd.

Engineer

Soletanche Bachy Canada

General contractor

FWS Industrial Projects Canada Ltd.

Period of works

April 2018-August 2018

Main figures

CFA

350 CFA concrete piles. 500mm & 600mm diameter in depths from 20.5m to 24m deep.



Project description

Design and construction of deep pile foundations for the new G3 Inland Grain Terminal in Maidstone Saskatchewan. The lump sum contract was a design/build contract for SB Canada. The CFA pile design system was evaluated and considered the most cost effective solution for the geotechnical characteristics of the site.

Ground conditions

The general soil conditions consisted of topsoil followed by variable deposits of silt, sand, weak clays and beneath was a glacial till stratum with random intermittent sand & water layers.

Solution

Due to the variable deposits of silt, sand and water extending throughout the boreholes, SB Canada designed the deep CFA piles for the solution. The loading on each pile required deep 500mm and 600mm piles to terminate the glacial till stratum. SB Canada deployed a Soilmec SR65 drill rig complete with ancillary equipment to install the piles to meet the General Contractors schedule requirements. The piles were installed successfully and the project was completed both on time and budget.

